



## Cap.7

# IMPLEMENTARE INTERFETE GRAFICE CU BAZE DE DATE. LIMBAJUL PHP



### SBD cu arhitectura client-server

Arhitectura client-server a SBD: model cu 2 componente distincte:

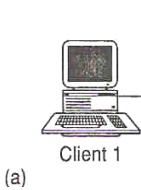
- ❑ Server (backend): are instalate SGBD-ul si BD; proceseaza si returneaza rezultatul cererilor de la clienti
- ❑ Client (frontend): are instalate programe de aplicatie:
  - un program „dedicat” (specific BD) sau
  - un browser (Chrome, Internet Explorer, etc): interacționează cu BD printr-o interfață software (HTML + PHP, ASP, Java, JavaScript, VBScript, etc...)

Configurații client – server

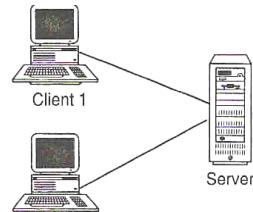
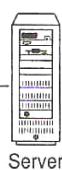
- a) un singur client și un singur server
- b) mai mulți clienti și un singur server
- c) mai mulți clienti și mai multe servere



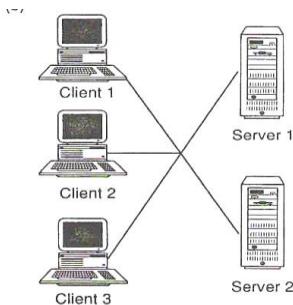
## Configurații Client – Server



a) un singur client și un singur server



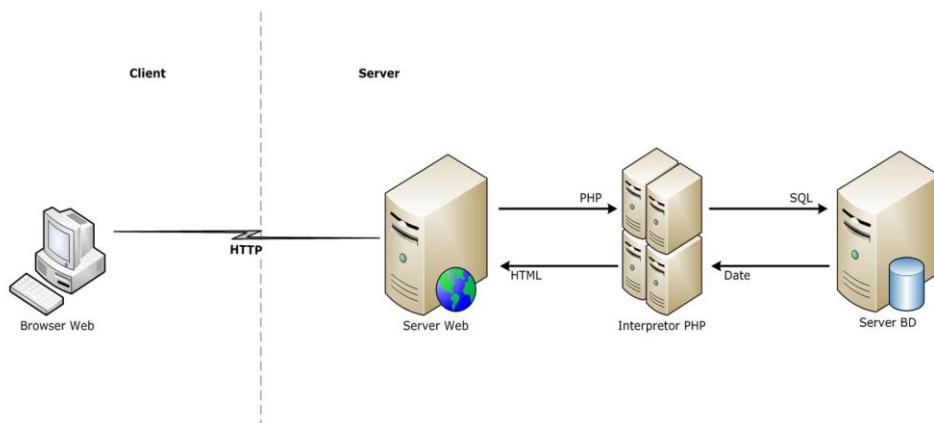
b) mai mulți clienți un singur server



c) mai mulți clienți mai multe servere



## Arhitectura client-server & aplicatii web





## FUNCTII CLIENT - SERVER

Client	Server
Administrează interfața cu utilizatorul	Primește și procesează cerințele clientilor pentru baza de date
Acceptă și verifică sintaxa intrărilor utilizatorilor	Verifică autorizarea
Procesează aplicațiile	Asigură respectarea contrângerilor de integritate
Generează cerințele pentru baza de date și le transmite serverului	Efectuează procesarea interogare/reactualizare și transmite clientului răspunsul
Transmite răspunsul înapoi la utilizator	Întreține catalogul de sistem
	Oferă acces simultan la baza de date
	Oferă controlul reconstituirii



## AVANTAJE

- acces mai eficient la BD existente;
- performanțe ridicate:** dacă clienții și serverul se află pe calculatoare diferite, atunci diferite calculatoare pot procesa aplicații în paralel;
- costuri reduse ale dispozitivelor hardware:** numai serverul necesită o capacitate de stocare și o putere de prelucrare suficiente pentru a stoca și gestiona BD;
- costuri reduse de comunicație :** aplicațiile execută o parte din operații la client, care trimite prin rețea numai cererea de acces la BD, ceea ce face ca pe rețea să circule mai putine date;
- cresterea coerentei** - serverul poate trata verificările de integritate, deoarece constrângerile trebuie definite și validate într-un singur loc, fără să fie necesar ca fiecare program aplicație să execute propriile verificări;



## SGBD cu arhitectura client-server

Clasificare SGBD după accesul la BD:

- ❑ **BD „monolitice”**: motorul BD și interfața se află pe același calculator, sunt BD de talie și performanțe reduse.

Ex. Windows: Microsoft Access, Fox Pro, etc.

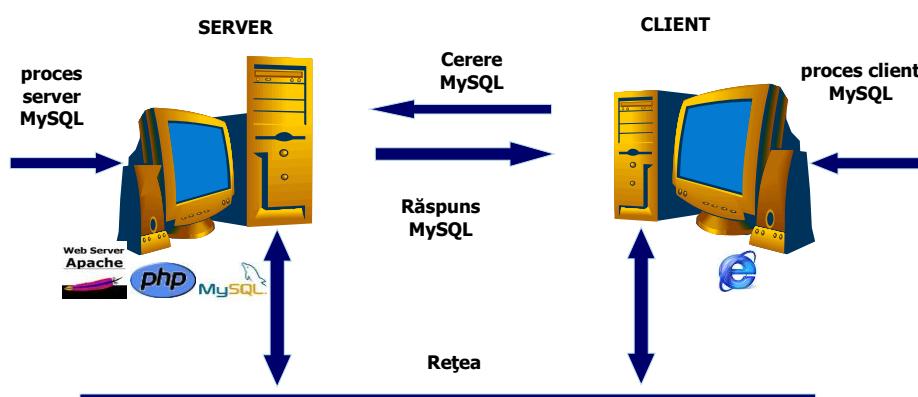
Linux: (în general, Open Source) PostgreSQL, etc.

- ❑ **BD „client – server”**: motorul BD și interfața se află pe calculatoare diferite, sunt BD de talie și performanțe considerabile.

Ex. MySQL ,ORACLE, Microsoft SQL SERVER, IBM DB2, INFORMIX, etc



## ARHITECTURĂ CLIENT – SERVER





## Proiectarea paginilor web dinamice

**Pagini web dinamice:** conținut dinamic , poate dифеri la accesări diferite asigură interactivitatea și interacțiunea între clienti și server

Ex: la același URL conținutul paginii poate varia în funcție de anumiți parametri cum ar fi locația geografică a utilizatorului, ora, paginile vizitate anterior, profilul utilizatorului;

**Clasificare pagini web dinamice:**

- pagini dinamice pe parte de client ("Client Side")
- pagini dinamice pe partea de server("Server Side").



## PAGINI WEB DINAMICE “CLIENT SIDE”

**Tehnologii pentru realizarea paginilor dinamice pe partea de client:**

- scripturi pe partea de client** (“client side scripts ”): asigurarea interactivității: meniu, formulare, crearea de efecte speciale, efectuarea de calcule, animație, etc. Limbaje utilizate: JavaScript, Jscript și VBScript.
- DHTML** (“ Dynamic HTML ”): tehnologie dezvoltată de Microsoft care combină HTML, folosind stiluri (CSS) și script-uri pentru realizarea paginilor web dinamice sau interactive.
- applet-uri Java**: aplicații de dimensiune redusă, în limbajul Java (instalare mașina virtuală Java).
- controale ActiveX**: componente binare incluse în paginile Web pentru a oferi interactivitate, rulează pe platforma Windows
- elemente multimedia**: realizate în general cu Adobe Flash (instalare plug-in) pentru meniu, jocuri, animație



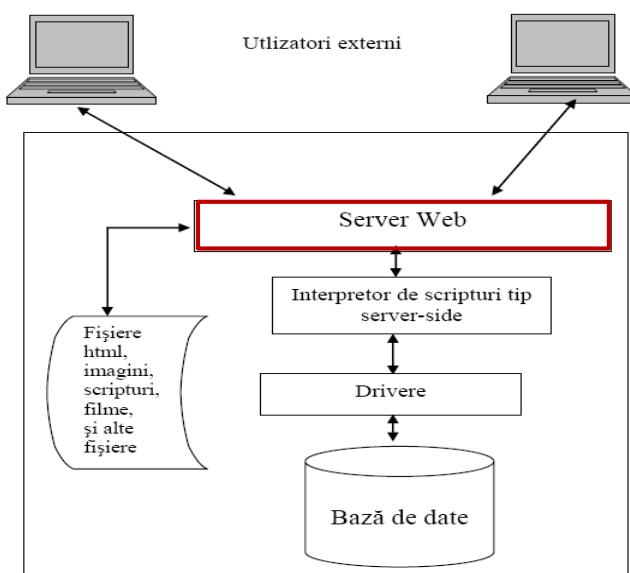
## PAGINI WEB DINAMICE “SERVER SIDE”

Arhitectura server :

- serverul Web,
- interpretorul de scripturi tip server-side,
- driverele de acces la baza de date,
- baza de date și colecțiile de fișiere.



### Arhitectura server Web cu suport de scripting





## PAGINI WEB DINAMICE “SERVER SIDE”

### Server web

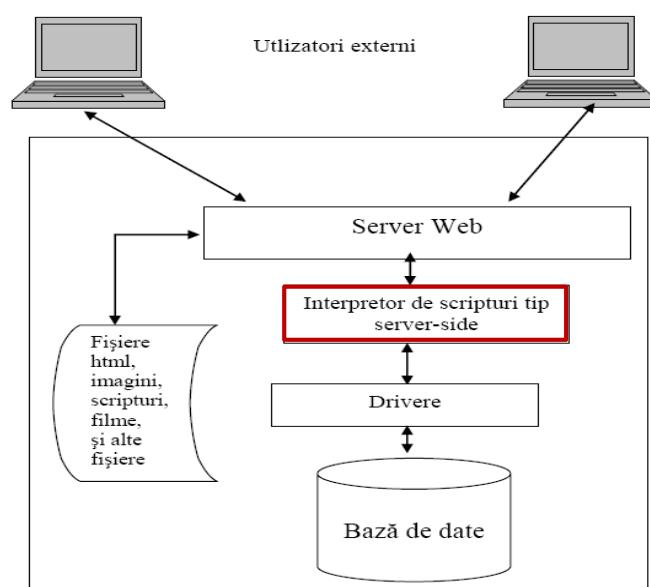
**Server web:** aplicație complexă responsabilă pentru comunicarea cu browserele externe.

Informațiile solicitate de la server = fișiere:

- ❑ **Fisiere statice:** se transmit mai departe către browser fără nici o modificare. Ex: imagini, fișiere HTML, filme, fișiere pentru download, animații Flash etc.
- ❑ **Fisiere script:** programe simple executate de către un interprétor, trimițându-se spre server-ul de Web doar rezultatul execuției lor. Tehnica generării dinamice a documentelor de tip HTML face posibilă accesarea bazelor de date pe Internet.



## Arhitectura server Web cu suport de scripting





## PAGINI WEB DINAMICE “SERVER SIDE”

### Interpreter de scripturi tip server-side

Interpreter de scripturi tip server-side: executa scripturi la cererea serverului de Web, preia rezultatul unor interogări la nivelul BD și trimite spre serverul Web rezultatul execuției scripturilor = conținut HTML pentru afisare in browser.

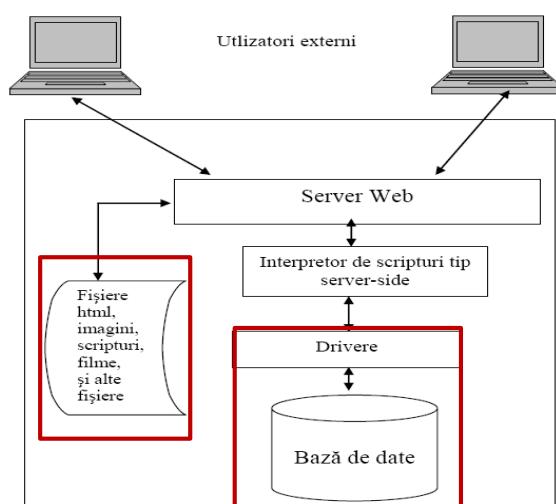
Identificare script: extensia fișierului .

Limbaje server-side scripting:

- PHP (Hypertext Preprocessor),
- ASP (Active Server Pages), ASP.NET,
- JSP (Java Server Pages),
- Ruby.



## Arhitectura server Web cu suport de scripting





## PAGINI WEB DINAMICE “SERVER SIDE”

### Drivere. Baza de date

**Drivere de acces la BD:** intermediaza interacțunea dintre interpretorul de scripturi și BD; sunt instrumente software specializate care nu sunt vizibile nici programatorului nici utilizatorului.

**Baza de date:** constă dintr-un SGBDR instalat fie pe același calculator cu serverul Web, fie este accesibil prin rețea sau Internet.

Ex:

- MySQL, SQL Server ,Oracle
- Fox Pro si Access nu se pretează pentru BD web folosite intens.

**Fișiere:** informații cu caracter static trimise utilizatorilor la cerere



## LIMBAJUL PHP

**Limbajul PHP (Hypertext Preprocessor):** cel mai popular limbaj de script pentru generarea de pagini HTML dinamice. Poate fi integrat în HTML.

**Istoric PHP:**

- conceput in 1994 de Rasmus Lerdorf.
- în prezent utilizat de peste 244M domenii (<http://www.php.net/usage.php>)

Site oficial: <http://www.php.net>



## LIMBAJUL PHP

**General:** download, documentatie

- <http://www.php.net/>

**Documentatii:** manual

- <http://www.php.net/manual/en/>
- <http://us2.php.net/manual/en/index.php>

**Tutoriale:**

- PHP.net tutorial: <http://php.net/manual/en/tutorial.php>
- W3schools tutorial:  
<http://www.w3schools.com/php/default.asp>



## LIMBAJUL PHP

**Avantaje:**

- **simplicitate:** simplu de folosit, accesibil ne-programatorilor. Sintaxa asemanatoare limbajului C
- **eficienta:** un programator PHP poate folosi module scrise de un alt programator fara sa fie nevoie sa cunoasca detalii specifice de implementare a codului.
- **cross-platform** : exista implementari ale limbajului pe mai multe sisteme de operare, cele mai populare fiind cele de pe Linux si Windows. Un cod PHP care ruleaza pe Linux, poate fi ulterior folosit pe un server Windows .
- **gratis** : PHP reprezinta un program Open Source, oricine poate folosi acest limbaj gratis. Utilizatorii au access la sursele PHP (scrise in limbajul C).

LIMBAJUL PHP

## Sintaxa:

- ❑ scripturile scrise in limbajul PHP pot fi editate cu orice editor de text
  - ❑ terminarea unei instructiuni se face obligatoriu cu caracterul ;
  - ❑ numele functiilor NU SUNT «case Sensitive» (nu se face diferenta intre litere mari/mici)
  - ❑ numele variabilelor SUNT Case Sensitive
  - ❑ ghilimelele se folosesc pereche "..." sau '...'
  - ❑ variabilele sunt precedate de \$

LIMBAJUL PHP

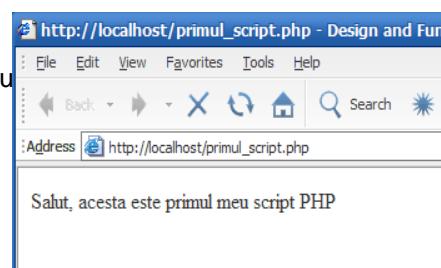
### Sintaxa:

- Codul PHP poate apărea oriunde în fisierul HTML și este delimitat de 2 seturi de etichete de deschidere și închidere:

Ex.

```
<?php  
echo 'Salut, acesta este primul meu  
// comentariu PHP  
# comentariu PHP  
?>
```

<http://www.w3schools.com/php/>



#### PHP limbaj foarte puternic:

- cel mai mare sistem de blogging web (WordPress) bazat pe PHP
  - cea mai mare retea sociala (Facebook) bazaata pe PHP



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

-se definesc cu \$

[PHP Echo / Print](#)

**Exemplu: variabile**

```
<?php  
$txt = "Hello world!";  
$x = 5;  
$y = 10.5;  
?>
```

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

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## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

-afisare date: variabile, constante, expresii

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**Exemplu : afisare variabile**

```
<?php  
$txt1 = "Limbajul PHP";  
$txt2 = "Variabile";  
$x = 5;  
$y = 4;  
echo "<h2>". $txt1."</h2>";  
echo "Tipuri de date PHP:". $txt2 . "<br>";  
echo "x=5, y=4, x+y=";  
echo $x + $y;  
?>
```

## Limbajul PHP

Tipuri de date PHP: Variabile  
x=5, y=4, x+y=9



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

-Tipuri de date definite in PHP:

[PHP Strings](#)

- String

[PHP Constants](#)

- Integer

[PHP Operators](#)

- Float (floating point numbers - also called double)

[PHP If...Else...Elseif](#)

- Boolean

[PHP Switch](#)

- Array

[PHP While Loops](#)

- Object

[PHP For Loops](#)

- NULL -valoare implicita de initializare a variabilelor

[PHP Functions](#)

- Resource -apelare baza de date

[PHP Arrays](#)



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

Exemplu : afisare variabile tip sir de caractere concatenate

[PHP Strings](#)

-siruri

[PHP Constants](#)

```
<?php
```

[PHP Operators](#)

```
$txt1 = "Limbajul PHP";
```

[PHP If...Else...Elseif](#)

```
$txt2 = "Siruri";
```

[PHP Switch](#)

```
echo "<h2>" . $txt1 . "</h2>";
```

[PHP While Loops](#)

```
echo "Invata " . $txt1 . " despre ". $txt2 . "<br>";
```

```
?>
```

**Limbajul PHP**

Invata Limbajul PHP despre Siruri



## LIMBAJUL PHP

Elemente ale limbajului PHP: **Exemple : functii pentru siruri de caractere**

PHP Variables

PHP Echo / Print

PHP Data Types

PHP Strings

-siruri

PHP Constants

PHP Operators

PHP If...Else...Elseif

PHP Switch

PHP While Loops

PHP For Loops

PHP Functions

PHP Arrays

-functie lungime sir

```
<?php  
echo strlen("Hello world!"); // outputs 12  
?>
```

-functie nr cuvinte din sir

```
<?php  
echo str_word_count("Hello world!"); // outputs 2  
?>
```

-functie inversare sir

```
<?php  
echo strrev("Hello world!"); // outputs !dlrow olleH  
?>
```

Lista completa functii siruri: [PHP String Reference](#).



## LIMBAJUL PHP

Elemente ale limbajului PHP: **Exemple : definire constante**

PHP Variables

PHP Echo / Print

PHP Data Types

PHP Strings

PHP Constants

-constante

PHP Operators

PHP If...Else...Elseif

PHP Switch

PHP While Loops

PHP For Loops

PHP Functions

PHP Arrays

Sintaxa:

```
define(name, value, case-insensitive)
```

unde: name: nume constanta

value: valoarea constantei

case-insensitive: nume constanta

este case-insensitive sau nu.

Implicit = false

```
<?php  
define("SALUT", "Buna seara", true);  
echo salut;  
?>
```

```
<?php  
define("SALUT", "Buna seara");  
echo SALUT;  
?>
```

Acelasi efect

Buna seara



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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**PHP Operators -operatori**

[PHP If...Else...Elseif](#)

+

• Arithmetic operators

• Assignment operators

• Comparison operators

• Increment/Decrement operators

• Logical operators

• String operators

• Array operators

[PHP Switch](#)

-

Subtraction

Name

Example

[PHP While Loops](#)

\*

Multiplication

$\$x + \$y$

[PHP For Loops](#)

/

Division

$\$x / \$y$

[PHP Functions](#)

%

Modulus

$\$x \% \$y$

[PHP Arrays](#)

\*\*

Exponentiation

$\$x ^\star \star \$y$



## LIMBAJUL PHP

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**Exemple : operatori adunare, ridicare la putere**

Operatorul + (adunare)

```
<?php
$x = 10;
$y = 6;
//echo $x + $y;
echo "x=10,y=6, x+y=";
echo $x + $y ;
?>
```

x=10,y=6, x+y=16

Operatorul \*\* (ridicare la putere)

```
<?php
$x = 10;
$y = 3;
echo "x=10, y=3, x^3=";
echo $x ** $y;
```

x=10, y=3, x^3=1000



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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- Arithmetic operators
- Assignment operators
- Comparison operators
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- Logical operators
- String operators
- Array operators

Assignment	Same as...	Description
x = y	x = y	The left operand gets set to the value of the expression on the right
x += y	x = x + y	Addition
x -= y	x = x - y	Subtraction
x *= y	x = x * y	Multiplication
x /= y	x = x / y	Division
x %= y	x = x % y	Modulus



## LIMBAJUL PHP

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**Exemple : operatori +=, %=**

Operatorul +=

```
<?php
$x = 20;
$x += 100;
echo "x=20, x+=100=";
echo $x;
?>
```

x=20, x+=100=120

Operatorul %=

```
<?php
$x = 15;
$x %= 4;
echo "x=15, x%=4=>x=x%4=";
echo $x;
?>
```

x=15,x%=4=>x=x%4=3



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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- Arithmetic operators
- Assignment operators
- Comparison operators

Operator	Name	Example	Result
==	Equal	\$x == \$y	Returns true if \$x is equal to \$y
==>	Identical	\$x ==> \$y	Returns true if \$x is equal to \$y, and they are of the same type
!=	Not equal	\$x != \$y	Returns true if \$x is not equal to \$y
<>	Not equal	\$x <> \$y	Returns true if \$x is not equal to \$y
!==	Not identical	\$x !== \$y	Returns true if \$x is not equal to \$y, or they are not of the same type
>	Greater than	\$x > \$y	Returns true if \$x is greater than \$y
<	Less than	\$x < \$y	Returns true if \$x is less than \$y
>=	Greater than or equal to	\$x >= \$y	Returns true if \$x is greater than or equal to \$y
<=	Less than or equal to	\$x <= \$y	Returns true if \$x is less than or equal to \$y



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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Operator	Name	Description
++\$x	Pre-increment	Increments \$x by one, then returns \$x
\$x++	Post-increment	Returns \$x, then increments \$x by one
--\$x	Pre-decrement	Decrements \$x by one, then returns \$x
\$x--	Post-decrement	Returns \$x, then decrements \$x by one



## LIMBAJUL PHP

Elemente ale limbajului PHP: **Exemplu : operator incrementare**

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

Operatorul + +

```
<?php  
$x = 10;  
echo "x++ afiseaza x apoi incrementeaza:". $x++. "<br>";  
echo "++x incrementeaza x apoi afiseaza:" .++$x;  
?>
```

x++ afiseaza x apoi incrementeaza:10  
++x incrementeaza x apoi afiseaza:12

[-operatori](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

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## LIMBAJUL PHP

Elemente ale limbajului PHP:

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- Arithmetic operators
- Assignment operators
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- Logical operators
- String operators
- Array operators

Operator	Name	Example	Result
and	And	\$x and \$y	True if both \$x and \$y are true
or	Or	\$x or \$y	True if either \$x or \$y is true
xor	Xor	\$x xor \$y	True if either \$x or \$y is true, but not both
&&	And	\$x && \$y	True if both \$x and \$y are true
	Or	\$x    \$y	True if either \$x or \$y is true
!	Not	!\$x	True if \$x is not true



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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- Array operators

Operator	Name	Example	Result
.	Concatenation	\$txt1 . \$txt2	Concatenation of \$txt1 and \$txt2
.=	Concatenation assignment	\$txt1 .= \$txt2	Appends \$txt2 to \$txt1



## LIMBAJUL PHP

Elemente ale limbajului PHP:

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**PHP Operators -operatori**

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### Exemple : operatori concatenare

Operatorul . (concatenare siruri caractere)

```
<?php  
$txt1 = "Hello";  
$txt2 = " world!";  
echo $txt1 . $txt2;  
?>
```

Hello world!

Operatorul .= (concatenare siruri caractere)

```
<?php  
$txt1 = "Hello";  
$txt2 = " world!";  
$txt1 .= $txt2;  
echo $txt1;  
?>
```



## LIMBAJUL PHP

Elemente ale limbajului PHP: **Exemplu : operator conditional**

[PHP Variables](#)

[PHP Echo / Print](#)

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[PHP Constants](#)

**PHP Operators -operatori**

[PHP If...Else...Elseif](#)

[PHP Switch](#)

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$\$x = expr1 ? expr2 : expr3$

Returneaza valoarea variabilei x :

daca expr1 = true , x= expr2

daca expr2 = false , x= expr3

```
<?php  
$x = 5;  
$x>1?$x=10:$x=0;  
echo "x=$x";  
?>
```

x=10



Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

**PHP Operators**

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays](#)

- Arithmetic operators
- Assignment operators
- Comparison operators
- Increment/Decrement operators
- Logical operators
- String operators
- Array operators

Operator	Name	Example	Result
+	Union	$\$x + \$y$	Union of \$x and \$y
==	Equality	$\$x == \$y$	Returns true if \$x and \$y have the same key/value pairs
===	Identity	$\$x === \$y$	Returns true if \$x and \$y have the same key/value pairs in the same order and of the same types
!=	Inequality	$\$x != \$y$	Returns true if \$x is not equal to \$y
<>	Inequality	$\$x <> \$y$	Returns true if \$x is not equal to \$y
!==	Non-identity	$\$x !== \$y$	Returns true if \$x is not identical to \$y



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

**[PHP If...Else...Elseif](#)**

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays](#)

```
if (condition) {  
    code to be executed if condition is true;  
}
```

```
if (condition) {  
    code to be executed if condition is true;  
} else {  
    code to be executed if condition is false;  
}
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple : if**

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

**[PHP If...Else...Elseif](#)**

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays](#)

```
<?php  
$x = 10;  
$y = 50;  
if ($x < $y)  
{echo "x=10 < y=50";}  
?>
```

x=10 < y=50

```
<?php  
$x = 100;  
$y = 50;  
if ($x <> $y)  
{echo "x=100 diferit de y=50";}  
?>
```

x=100 diferit de y=50



## LIMBAJUL PHP

Elemente ale limbajului PHP:

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
**PHP If...Else...Elseif**  
PHP Switch  
PHP While Loops  
PHP For Loops  
PHP Functions  
PHP Arrays

**Exemple : if else**

```
<?php
$a=20;
$b=40;
$x=25;
if (($x >$a) AND ($x < $b ))
{echo "x=25 este in intervalul (20,40)" ;}
else {echo "x nu este in intervalul (20,40)" ;}
?>
```

x=25 este in intervalul (20,40)



## LIMBAJUL PHP

Elemente ale limbajului PHP:

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
PHP If...Else...Elseif  
**PHP Switch**  
PHP While Loops  
PHP For Loops  
PHP Functions  
PHP Arrays

```
switch (n) {
    case Label1:
        code to be executed if n=label1;
        break;
    case Label2:
        code to be executed if n=label2;
        break;
    case Label3:
        code to be executed if n=label3;
        break;
    ...
    default:
        code to be executed if n is different from all labels;
}
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

Exemple : switch

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
PHP If...Else...Elseif  
**PHP Switch**  
PHP While Loops  
PHP For Loops  
PHP Functions  
PHP Arrays

```
<?php
$favcolor = "red";

switch ($favcolor) {
    case "red":
        echo "Your favorite color is red!";
        break;
    case "blue":
        echo "Your favorite color is blue!";
        break;
    case "green":
        echo "Your favorite color is green!";
        break;
    default:
        echo "Your favorite color is neither red, blue, nor green!";
}
?>
```

Your favorite color is red!



## LIMBAJUL PHP

Elemente ale limbajului PHP:

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
PHP If...Else...Elseif  
PHP Switch  
**PHP While Loops**  
PHP For Loops  
PHP Functions  
PHP Arrays

```
while (condition is true) {
    code to be executed;
}
```

```
do {
    code to be executed;
} while (condition is true);
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple: while, do while**

- [PHP Variables](#)
- [PHP Echo / Print](#)
- [PHP Data Types](#)
- [PHP Strings](#)
- [PHP Constants](#)
- [PHP Operators](#)
- [PHP If...Else...Elseif](#)
- [PHP Switch](#)
- [PHP While Loops](#)
- [PHP For Loops](#)
- [PHP Functions](#)
- [PHP Arrays](#)

```
<?php  
$x = 1;  
  
while($x <= 5) {  
    echo "The number is: $x <br>";  
    $x++;  
}  
?>  
  
<?php  
$x = 1;  
  
do {  
    echo "The number is: $x <br>";  
    $x++;  
} while ($x <= 5);  
?>
```

The number is: 1  
The number is: 2  
The number is: 3  
The number is: 4  
The number is: 5



## LIMBAJUL PHP

Elemente ale limbajului PHP:

- [PHP Variables](#)
- [PHP Echo / Print](#)
- [PHP Data Types](#)
- [PHP Strings](#)
- [PHP Constants](#)
- [PHP Operators](#)
- [PHP If...Else...Elseif](#)
- [PHP Switch](#)
- [PHP While Loops](#)
- [PHP For Loops](#)
- [PHP Functions](#)
- [PHP Arrays](#)

```
for (init counter; test counter; increment counter) {  
    code to be executed;  
}
```

```
foreach ($array as $value) {  
    code to be executed;  
}
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple: for, foreach**[PHP Variables](#)[PHP Echo / Print](#)[PHP Data Types](#)[PHP Strings](#)[PHP Constants](#)[PHP Operators](#)[PHP If...Else...Elseif](#)[PHP Switch](#)[PHP While Loops](#)[PHP For Loops](#)[PHP Functions](#)[PHP Arrays](#)

```
<?php  
for ($x = 0; $x <= 10; $x++) {  
    echo "The number is: $x <br>";  
}  
?>
```

```
<?php  
$colors = array("red", "green", "blue", "yellow");  
  
foreach ($colors as $value) {  
    echo "$value <br>";  
}  
?>
```

The number is: 0  
The number is: 1  
The number is: 2  
The number is: 3  
The number is: 4  
The number is: 5  
The number is: 6  
The number is: 7  
The number is: 8  
The number is: 9  
The number is: 10

red  
green  
blue  
yellow



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple : functii utilizator**[PHP Variables](#)[PHP Echo / Print](#)[PHP Data Types](#)[PHP Strings](#)[PHP Constants](#)[PHP Operators](#)[PHP If...Else...Elseif](#)[PHP Switch](#)[PHP While Loops](#)[PHP For Loops](#)[PHP Functions](#)[PHP Arrays](#)

```
function functionName() {  
    code to be executed;  
}
```

```
<?php  
function writeMsg() {  
    echo "Hello world!";  
}  
  
writeMsg(); // call the function  
?>
```

Hello world!



## LIMBAJUL PHP

Elemente ale limbajului PHP:

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
PHP If...Else...Elseif  
PHP Switch  
PHP While Loops  
PHP For Loops  
PHP Functions

PHP Arrays      -enumerari

**Exemple enumerari:**

**-enumerari tip sir indexat:**

Ex. 1:

```
$cars = array("Volvo", "BMW", "Toyota");
```

Echivalent cu :

Ex. 2

```
$cars[0] = "Volvo";
```

```
$cars[1] = "BMW";
```

```
$cars[2] = "Toyota";
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple: enumerari tip sir indexat afisare**

PHP Variables  
PHP Echo / Print  
PHP Data Types  
PHP Strings  
PHP Constants  
PHP Operators  
PHP If...Else...Elseif  
PHP Switch  
PHP While Loops  
PHP For Loops  
PHP Functions

PHP Arrays      -enumerari

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
echo $cars[0] . "<br>". $cars[1]."<br>". $cars[2];  
?>
```

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
$length = count($cars);  
for($x = 0; $x < $length; $x++) {  
    echo $cars[$x];  
    echo "<br>";}  
?>
```

Volvo  
BMW  
Toyota

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
echo count($cars);  
?>
```

3



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays](#)

**Exemple enumerari:**

**-enumerari asociative:**

Ex. 1:

```
$varsta= array("Peter"=>"25", "Ion"=>"27", "Ana"=>"23");
```

Ex. 2:

```
$varsta['Peter'] = "25";
```

```
$varsta['Ion'] = "27";
```

```
$varsta['Ana'] = "23";
```

[-enumerari](#)



## LIMBAJUL PHP

Elemente ale limbajului PHP:

**Exemple: enumerari asociative afisare:**

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays](#)

```
<?php  
$age = array("Peter"=>"25", "Ion"=>"27", "Ana"=>"23");  
echo "Peter are " . $age['Peter'] . " ani.";
```

Peter are 25 ani.

```
<?php  
$age = array("Peter"=>"25", "Ion"=>"27", "Ana"=>"23");  
foreach($age as $x => $x_value) {  
    echo "Nume=" . $x . ", Varsta=" . $x_value;  
    echo "<br>";  
}  
?>
```

Nume=Peter, Varsta=25  
Nume=Ion, Varsta=27  
Nume=Ana, Varsta=23

[-enumerari](#)



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)  
[PHP Echo / Print](#)  
[PHP Data Types](#)  
[PHP Strings](#)  
[PHP Constants](#)  
[PHP Operators](#)  
[PHP If...Else...Elseif](#)  
[PHP Switch](#)  
[PHP While Loops](#)  
[PHP For Loops](#)  
[PHP Functions](#)

**PHP Arrays** -enumerari

**Exemple enumerari:**

-enumerari multidimensionale:

Name	Stock	Sold
Volvo	22	18
BMW	15	13
Saab	5	2
Land Rover	17	15

```
$cars = array (  
    array("Volvo",22,18),  
    array("BMW",15,13),  
    array("Saab",5,2),  
    array("Land Rover",17,15) );
```



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)  
[PHP Echo / Print](#)  
[PHP Data Types](#)  
[PHP Strings](#)  
[PHP Constants](#)  
[PHP Operators](#)  
[PHP If...Else...Elseif](#)  
[PHP Switch](#)  
[PHP While Loops](#)  
[PHP For Loops](#)  
[PHP Functions](#)

**PHP Arrays** -enumerari

**Exemple enumerari:**

-enumerari multidimensionale afisare:

```
<?php  
$cars = array(  
    array("Volvo",22,18),  
    array("BMW",15,13),  
    array("Saab",5,2),  
    array("Land Rover",17,15)  
);  
echo $cars[0][0].": In stock: ".$cars[0][1].", sold: ".$cars[0][2].".<br>";  
echo $cars[1][0].": In stock: ".$cars[1][1].", sold: ".$cars[1][2].".<br>";  
echo $cars[2][0].": In stock: ".$cars[2][1].", sold: ".$cars[2][2].".<br>";  
echo $cars[3][0].": In stock: ".$cars[3][1].", sold: ".$cars[3][2].".<br>";  
?>
```

Volvo: In stock: 22, sold: 18.  
BMW: In stock: 15, sold: 13.  
Saab: In stock: 5, sold: 2.  
Land Rover: In stock: 17, sold: 15.



## LIMBAJUL PHP

Elemente ale limbajului PHP:

Functii de sortare enumerari:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays -enumerari](#)

- `sort()` - sort arrays in ascending order
- `rsort()` - sort arrays in descending order
- `asort()` - sort associative arrays in ascending order, according to the value
- `ksort()` - sort associative arrays in ascending order, according to the key
- `arsort()` - sort associative arrays in descending order, according to the value
- `krsort()` - sort associative arrays in descending order, according to the key



## LIMBAJUL PHP

Elemente ale limbajului PHP:

Exemple sortare enumerari indexabile: siruri caractere

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays -enumerari](#)

```
<?php
$cars = array("Volvo", "BMW", "Toyota");
sort($cars);
$l1 = count($cars);
for($x = 0; $x < $l1; $x++) {
    echo $cars[$x];
    echo "<br>";
}
?>
```

BMW  
Toyota  
Volvo



## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

[PHP Constants](#)

[PHP Operators](#)

[PHP If...Else...Elseif](#)

[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays -enumerari](#)

**Exemple sortare enumerari indexabile =siruri numere:**

```
<?php
$sir = array(4, 6, 2, 22, 11);
sort($sir);
$l1 = count($sir);
for($x = 0; $x < $l1; $x++) {
    echo $sir[$x];
    echo "<br>";}
?>
```

2  
4  
6  
11  
22

```
<?php
$sir = array(4, 6, 2, 22, 11);
rsort($sir);
$l1 = count($sir);
for($x = 0; $x < $l1; $x++) {
    echo $sir[$x];
    echo "<br>";}
?>
```

22  
11  
6  
4  
2

## LIMBAJUL PHP

Elemente ale limbajului PHP:

[PHP Variables](#)

[PHP Echo / Print](#)

[PHP Data Types](#)

[PHP Strings](#)

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[PHP Switch](#)

[PHP While Loops](#)

[PHP For Loops](#)

[PHP Functions](#)

[PHP Arrays -enumerari](#)

**Exemple sortare enumerari asociative : asort**

**Ex.1 sortare dupa Varsta**

\$age= array ("Nume"=>"Varsta")  
asort() – sorteaza tabloul dupa valoarea asociata("Varsta")

```
<?php
$age = array("Peter"=>"25", "Ion"=>"27", "Ana"=>"23");
asort($age);
foreach($age as $x => $x_value) {
    echo "Nume=" . $x . ", Varsta=" . $x_value;
    echo "<br>";}
?>
```

Nume=Ana, Varsta=23  
Nume=Peter, Varsta=25  
Nume=Ion, Varsta=27



## LIMBAJUL PHP

Elemente ale limbajului PHP:

PHP Variables

PHP Echo / Print

PHP Data Types

PHP Strings

PHP Constants

PHP Operators

PHP If...Else...Elseif

PHP Switch

PHP While Loops

PHP For Loops

PHP Functions

### Exemple sortare enumerari asociative : ksort

Ex.2 sortare dupa Nume:

\$age= array ("Nume"=>"Varsta")

ksort() – sorteaza tabloul dupa cheie (key = " Nume" )

```
<?php
```

```
$age = array("Peter">"25", "Ion">"27", "Ana">"23");  
ksort($age);  
foreach($age as $x => $x_value) {  
    echo "Nume=" . $x . ", Varsta=" . $x_value;  
    echo "<br>";}
```

Nume=Ana, Varsta=23

Nume=Ion, Varsta=27

Nume=Peter, Varsta=25

PHP Arrays

-enumerari



## EXEMPLE PHP: 1. Afisare text simplu, variabile case senzitive

```
<!DOCTYPE html>  
<html>  
<body>  
  
<h1>My first PHP page</h1>  
  
<?php  
echo "Hello World!";  
?>  
  
</body>  
</html>
```

### My first PHP page

Hello World!

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$color = "red";  
echo "My car is " . $color . "<br>";  
echo "My house is " . $COLOR . "<br>";  
echo "My boat is " . $coLOR . "<br>";  
?>  
  
</body>  
</html>
```

My car is red  
My house is  
My boat is

Obs: nu se afiseaza valoarea variabilei \$color daca se introduce numele acesteia case insenzitive



## EXEMPLE PHP: 2.Comentarii+ afisare rezultat expresie

```
<!DOCTYPE html>
<html>
<body>

<?php
// This is a single-line comment

# This is also a single-line comment

/*
This is a multiple-lines comment block
that spans over multiple
lines
*/

// You can also use comments to leave out parts of a code line
$x = 5 /* + 15 */ + 5;
echo $x;
?>

</body>
</html>
```

10



## EXEMPLE PHP: 3.Tiparire cu echo sau print

```
<!DOCTYPE html>
<html>
<body>

<?php
echo "<h2>PHP is Fun!</h2>";
echo "Hello world!<br>";
echo "I'm about to learn PHP!<br>";
echo "This ", "string ", "was ", "made ";
echo "with multiple parameters.";

?>

</body>
</html>
```

### PHP is Fun!

Hello world!  
I'm about to learn PHP!  
This string was made with multiple parameters.

```
<!DOCTYPE html>
<html>
<body>

<?php
print "<h2>PHP is Fun!</h2>";
print "Hello world!<br>";
print "I'm about to learn PHP!";
?>

</body>
</html>
```

### PHP is Fun!

Hello world!  
I'm about to learn PHP!



### EXEMPLE PHP: 4.Siruri /enumerari indexate

```
<!DOCTYPE html> 2
<html>
<body>

<?php
echo str_word_count("Hello world!");
?>

</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>

<?php
$cars = array("Volvo", "BMW", "Toyota");
$length = count($cars);

for($x = 0; $x < $length; $x++) {
    echo $cars[$x];
    echo "<br>";
}

?>

</body>
</html>
```

Volvo  
BMW  
Toyota



### EXEMPLE PHP: 5.Siruri asociative

```
<!DOCTYPE html>
<html>
<body>

<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
echo "Peter is " . $age['Peter'] . " years old.";
?>

</body>
</html>
```

Peter is 35 years old.

**EXEMPLE PHP: 6.Data calendaristica sistem**

The screenshot shows a Windows desktop environment. On the left, there is a Notepad window titled "date - Notepad" containing PHP code. On the right, there is a web browser window showing the output of the PHP code. The browser's address bar shows "et.utcluj.ro/PHP/date.php". The output in the browser is:

```
Today is 2019/11/13  
Today is 2019.11.13  
Today is 2019-11-13  
Today is Wednesday
```

Test: <http://et.utcluj.ro/PHP/date.php>

**LIMBAJUL PHP: Functii matematice predefinite**

<code>lcg_value()</code>	<code>sqrt()</code>	Returns the square root of a number
<code>log()</code>	<code>srand()</code>	Seeds the random number generator
<code>log10()</code>	<code>tan()</code>	Returns the tangent of a number
<code>log1p()</code>	<code>tanh()</code>	Returns the hyperbolic tangent of a number
<code>max()</code>		Returns the highest value in an array, or the highest value of several specified values
<code>min()</code>		Returns the lowest value in an array, or the lowest value of several specified values
<code>mt_getrandmax()</code>		Returns the largest possible value returned by <code>mt_rand()</code>
<code>mt_rand()</code>		Generates a random integer using Mersenne Twister algorithm
<code>mt_srand()</code>		Seeds the Mersenne Twister random number generator
<code>octdec()</code>		Converts an octal number to a decimal number
<code>pi()</code>		Returns the value of PI
<code>pow()</code>		Returns x raised to the power of y
<code>rad2deg()</code>		Converts a radian value to a degree value
<code>rand()</code>		Generates a random integer
<code>round()</code>		Rounds a floating-point number



## LIMBAJUL PHP: Constante matematice predefinite

PHP 5 Predefined Math Constants

Constant	Value	Description	PHP Version
INF	INF	The infinite	PHP 4
M_E	2.7182818284590452354	Returns e	PHP 4
M_EULER	0.57721566490153286061	Returns Euler constant	PHP 4
M_LNPI	1.14472988584940017414	Returns the natural logarithm of PI: log_e(pi)	PHP 5.2
M_LN2	0.69314718055994530942	Returns the natural logarithm of 2: log_e 2	PHP 4
M_LN10	2.30258509299404568402	Returns the natural logarithm of 10: log_e 10	PHP 4
M_LOG2E	1.4426950408889634074	Returns the base-2 logarithm of E: log_2 e	PHP 4
M_LOG10E	0.43429448190325182765	Returns the base-10 logarithm of E: log_10 e	PHP 4
M_PI	3.14159265358979323846	Returns Pi	PHP 4
M_PI_2	1.57079632679489661923	Returns Pi/2	PHP 4
M_PI_4	0.78539816339744830962	Returns Pi/4	PHP 4
M_1_PI	0.31830988618379067154	Returns 1/Pi	PHP 4
M_2_PI	0.63661977236758134308	Returns 2/Pi	PHP 4
M_SQRTPI	1.77245385090551602729	Returns the square root of PI: sqrt(pi)	PHP 5.2
M_2_SQRTPI	1.12837916709551257390	Returns 2/square root of PI: 2/sqrt(pi)	PHP 4
M_SQRT1_2	0.70710678118654752440	Returns the square root of 1/2: 1/sqrt(2)	PHP 4
M_SQRT2	1.41421356237309504880	Returns the square root of 2: sqrt(2)	PHP 4



## Operatii si expresii matematice in PHP

Calcul cos(PI/2)

```
<!DOCTYPE html>
<html>
<body>
<?php
echo cos(M_PI_2);
?>
</body>
</html>
```

Test: <http://et.utcluj.ro/PHP/cosinus.php>



## Operatii si expresii matematice in PHP

Afisare functia exponentială

A screenshot of a Windows taskbar showing Notepad and a browser window. The Notepad window contains PHP code to print exponential values. The browser window shows the results of running this code.

```
<!DOCTYPE html>
<html>
<body>
<?php
echo "exp(0), exp(1), exp(10),exp(4.8).<br>";
echo(exp(0) . "<br>");
echo(exp(1) . "<br>");
echo(exp(10) . "<br>");
echo(exp(4.8));
?>
</body>
</html>
```

Test: <http://et.utcluj.ro/PHP/exp.php>

exp(0), exp(1), exp(10),exp(4.8).

1  
2.718281828459  
22026.465794807  
121.51041751873



## LIMBAJUL PHP

Variabile globale – superglobals introduse din versiunea PHP 4.1.0

- `$GLOBALS`
- `$_SERVER`
- `$_REQUEST`
- `$_POST` -utilizate pentru formulare on line in HTML5
- `$_GET`
- `$_FILES`
- `$_ENV`
- `$_COOKIE`
- `$_SESSION`



## FORMULAR ON LINE – METODA HTTP POST

Exemplu: Formular cu nume si email METODA POST

Name: Laura Grindei  
E-mail: laura.grindei@ethm.utcluj.ro  
Trimitere

Test: <http://et.utcluj.ro/PHP/form.php>



## FORMULAR ON LINE – METODA HTTP POST

```
form - Notepad
File Edit Format View Help
<!DOCTYPE HTML>
<html>
<body>
<form action="welcome1.php" method="post">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>
</body>
</html>
```

Name: Laura Grindei  
E-mail: laura.grindei@ethm.utcluj.ro  
Trimitere

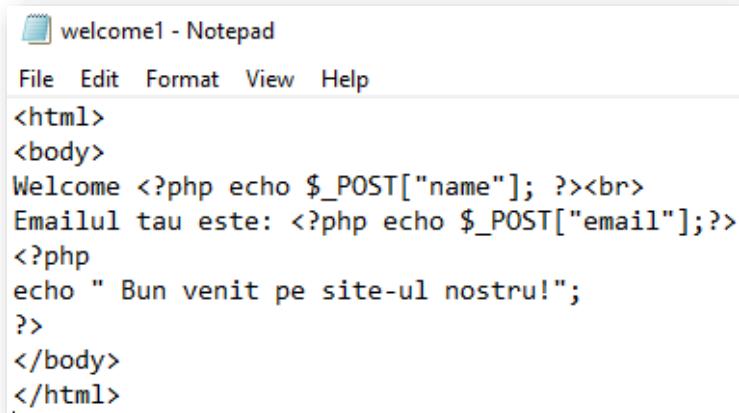
Rezultat: datele completate sunt trimise prin metoda HTTP POST in fisierul *welcome1.php* si browserul client afiseaza:

Welcome Laura Grindei  
Emailul tau este: laura.grindei@ethm.utcluj.ro Bun venit pe site-ul nostru!



## FORMULAR DE INTRARE – METODA HTTP POST

Fisierul *welcome1.php* contine:



```
welcome1 - Notepad
File Edit Format View Help
<html>
<body>
Welcome <?php echo $_POST["name"]; ?><br>
Emailul tau este: <?php echo $_POST["email"]; ?>
<?php
echo " Bun venit pe site-ul nostru!";
?>
</body>
</html>
```



## FORMULAR DE INTRARE – METODA HTTP POST



```
power - Notepad
File Edit Format View Help
<!DOCTYPE HTML>
<html>
<body>
<form action="respower.php" method="post">
Tensiune: <input type="number step="any"" name="tensiune"><br>
Curent: <input type="number step="any"" name="curent"><br>
<input type="submit">
</form>
</body>
</html>
```

Rezultat: datele completate sunt trimise prin metoda HTTP POST in fisierul *respower.php* si browserul client afiseaza:



## FORMULARARE ON LINE – METODA HTTP POST

Exemplu: Formular interfata calcul putere METODA POST

The screenshot shows a web browser window with the URL `et.utcluj.ro/PHP/respower.php`. The page title is "Calculul puterii intr-un circuit electric". The content area displays the following text:  
Tensiunea V [V]:1.5  
Curentul I [A]: 3  
Puterea din circuit este:  $P=V*I=4.5 \text{ W}$



## FORMULARARE ON LINE – METODA HTTP POST

Fisierul sursa este *respower.php*:

The screenshot shows a Notepad window titled "respower - Notepad". The file contains the following PHP code:

```
File Edit Format View Help
<html>
<body>
<h2> Calculul puterii intr-un circuit electric</h2>
Tensiunea V [V]:<?php echo $_POST["tensiune"]; ?><br>
Curentul I [A]: <?php echo $_POST["curent"];?>
<br>
<?php
echo " Puterea din circuit este: P=V*I=";
echo floatval($_POST["tensiune"]* $_POST["curent"]);
echo " W";
?>
</body>
</html>
```



## FORMULAR ON LINE – METODA HTTP GET

Exemplu: Formular Nume Email METODA GET

formget - Notepad

```
File Edit Format View Help
<!DOCTYPE HTML>
<html>
<body>
<form action="welcome_get.php" method="get">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>
</body>
</html>
```

Name: Laura Grindei  
E-mail: laura.grindei@ethm.utcluj.ro  
Trimite

et.utcluj.ro/PHP/formget.php

Rezultat: datele complete sunt trimise prin metoda HTTP GET in fisierul "welcome\_get.php" si browserul client afiseaza:

Welcome Laura Grindei  
Your email address is: laura.grindei@ethm.utcluj.ro



## FORMULAR ON LINE – METODA HTTP GET

Fisierul "welcome\_get.php" contine:

welcome\_get - Notepad

```
File Edit Format View Help
<html>
<body>
Welcome <?php echo $_GET["name"]; ?><br>
Your email address is: <?php echo $_GET["email"]; ?>
</body>
</html>
```

et.utcluj.ro/PHP/welcome\_get.php?name=Laura+Grindei&email=laura.grindei%40ethm.utcluj.ro

Welcome Laura Grindei  
Your email address is: laura.grindei@ethm.utcluj.ro



## FORMULARARE ON LINE – ALEGAREA METODEI

Metoda HTTP GET se alege cand :

- informațiile trimise dintr-un formular cu metoda GET sunt publice .
- informatia trimisa prin formular : maxim 2000 caractere

Observatie: GET nu trebuie utilizat niciodată pentru trimiterea de parole sau alte informații sensibile!

Metoda HTTP POST este metoda mai des utilizata si se alege cand :

- informațiile trimise cu metoda POST sunt invizibile pentru alții
- informatia depaseste 2000 de caractere (nelimitat)

Observatie: POST e recomandata pentru trimiterea de parole sau alte informații sensibile



## Includere fisiere in PHP : Include

Ex. 1 Include footer.php

footer.php

```
footer - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html>
<body>
<?php
echo "<p>Copyright &copy; 2010-2019 utcн.ro</p>";
?>
</body>
</html>
```

inclfooter.php

```
File Edit Format View Help
<html>
<body>
<h1>Welcome to my home page!</h1>
<p>Aceasta pagina web include un footer</p>
<?php include 'footer.php';?>
</body>
</html>
```

Welcome to my home page!

Aceasta pagina web include un footer

Copyright © 2010-2019 utcн.ro



## Includere fisiere in PHP : Include

Ex. 2 Include menu.php

```
menu.php
<?php
echo '<a href="/default.asp">Home</a> -
<a href="/html/default.asp">HTML Tutorial</a> -
<a href="/css/default.asp">CSS Tutorial</a> -
<a href="/js/default.asp">JavaScript Tutorial</a> -
<a href="default.asp">PHP Tutorial</a>';
?>
```

index.php

```
<!DOCTYPE html>
<html>
<body>

<div class="menu">
<?php include 'menu.php';?>
</div>

<h1>Welcome to my home page!</h1>
<p>Some text.</p>
<p>Some more text.</p>

</body>
</html>
```

[Home](#) - [HTML Tutorial](#) - [CSS Tutorial](#) - [JavaScript Tutorial](#) - [PHP Tutorial](#)

## Welcome to my home page!

Some text.

Some more text.



## Includere fisiere in PHP : Include

Ex. 3 Include menu.php, header.php

The screenshot shows the homepage of the PARTING project. At the top, there are logos for the European Union, Romania, the University of Technology Cluj-Napoca, and the Ministry of National Education. Below the logos, there is a banner for the "PARTING - Parteneriat interuniversitar pentru excelență în inginerie" project. The main content area includes a sidebar with links to various project documents and a main area with news items and a search bar.

**Header.php Content:**

```
<?php
echo '<a href="/default.asp">Home</a> -
<a href="/html/default.asp">HTML Tutorial</a> -
<a href="/css/default.asp">CSS Tutorial</a> -
<a href="/js/default.asp">JavaScript Tutorial</a> -
<a href="default.asp">PHP Tutorial</a>';
?>
```

**menu.php Content:**

```
<div class="menu">
<?php include 'menu.php';?>
</div>
```



## Includere fisiere in PHP : Include

menu.php

Ex. 3 Include menu.php

```
<table width="188" border="0" cellpadding="0" cellspacing="0">
<tbody>
<tr>
    <td align="right" valign="left" bgcolor="#FFFFFF">&ampnbsp</td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8"><font face="Arial, Helvetica, sans-serif"><strong> <a href="index.php">Home</a> </strong></font></td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8">&ampnbsp</td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8"><strong><font face="Arial, Helvetica, sans-serif"><a href="descriere.php">Descriere</a></font> </strong></td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8"><strong><font face="Arial, Helvetica, sans-serif"><a href="obiective.php">Obiective</a></font></strong></td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8"><strong><font face="Arial, Helvetica, sans-serif"><a href="activitati.php">Activitati</a></font></strong></td>
</tr>
<tr>
    <td height="21" align="right" valign="left" nowrap="nowrap" bgcolor="#E8E8E8"><strong><font face="Arial, Helvetica, sans-serif"><a href="echipa.php">Echipa</a></font></strong></td>
</tr>
<tr>
```



## Includere fisiere in PHP : Include

index.php

Ex. 3 Include header.php , menu.php

```
<?php include('header.php'); ?>
<TABLE width="99%" border=0 cellPadding=0 cellSpacing=0>
<TBODY>
<TR>
    <TD align=center valign="top" bgcolor="#FFFFFF"> <table width="100%" border="0">
        <tr>
            <td height="130" align="center"></td>
        </tr>
    </table>
    <div align="center"><font size="2">A</font><font size="2">cest site este
cofinantat din Fondul Social European prin Programul Operational Sectorial
de Dezvoltarea Resurselor Umane 2007-2013. </font><font size="1">Pentru
informatii detaliate despre celelalte programe <br />
cofinantate de Uniunea
Europeana , va invitam sa vizitati <a href="http://www.fonduri-ue.ro"><strong><u>
www.fonduri-ue.ro</u></strong></a></font></div></TD>

    <td width=209 valign=top>
        <?php include('menu.php'); ?>
        <p align="left"><br>
        </p></td>
```



### Includere fisiere in PHP : Fisiere- open , read, close

webdictionary.txt

Ex. 4 afiseaza text din fisier

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor  
SQL = Structured Query Language  
SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language
```

file.php

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$myfile = fopen("webdictionary.txt", "r")  
or die("Unable to open file!");  
echo  
fread($myfile,filesize("webdictionary.txt"  
));  
fclose($myfile);  
?  
  
</body>  
</html>
```

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets HTML =  
Hyper Text Markup Language PHP = PHP  
Hypertext Preprocessor SQL = Structured  
Query Language SVG = Scalable Vector  
Graphics XML = EXtensible Markup  
Language
```



### Includere fisiere in PHP : Fisiere- open , read, close

webdictionary.txt

Ex. 5 afiseaza o singura linie text din fisier cu fgets

webdictionary.txt

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor  
SQL = Structured Query Language  
SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language
```

read.php

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$myfile = fopen("webdictionary.txt", "r")  
or die("Unable to open file!");  
echo fgets($myfile);  
fclose($myfile);  
?  
  
</body>  
</html>
```

```
AJAX = Asynchronous JavaScript and XML
```



### Includere fisiere in PHP : Fisiere- open , read, close

Ex.6 afiseaza continutul unui fisier cu feof() si fgets()

webdictionary.txt

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor  
SQL = Structured Query Language  
SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language
```

afis.php

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$myfile = fopen("webdictionary.txt", "r")  
or die("Unable to open file!");  
// Output one line until end-of-file  
while(!feof($myfile)) {  
    echo fgets($myfile) . "<br>";  
}  
fclose($myfile);  
?>  
  
</body>  
</html>
```

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor  
SQL = Structured Query Language  
SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language
```



### Includere fisiere in PHP : Fisiere- open , read, close

Ex. 7 afiseaza continutul unui fisier caracter cu caracter feof(),fgetc()

webdictionary.txt

```
AJAX = Asynchronous JavaScript and XML  
CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor  
SQL = Structured Query Language  
SVG = Scalable Vector Graphics  
XML = EXtensible Markup Language
```

afiseaza.php

```
<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$myfile = fopen("webdictionary.txt", "r")  
or die("Unable to open file!");  
// Output one character until end-of-file  
while(!feof($myfile)) {  
    echo fgetc($myfile);  
}  
fclose($myfile);  
?>  
  
</body>  
</html>
```

```
AJAX = Asynchronous JavaScript and  
XML CSS = Cascading Style Sheets  
HTML = Hyper Text Markup Language  
PHP = PHP Hypertext Preprocessor SQL =  
Structured Query Language SVG =  
Scalable Vector Graphics XML =  
EXtensible Markup Language
```

**Includere fisiere in PHP : Fisiere- open , write, close**

Ex. 8 scrie intr-un fisier variabila sir \$txt: fwrite()

index.php

```
<?php
$myfile = fopen("newfile.txt", "w") or die("Unable to open file!");
$txt = "John Doe\n";
fwrite($myfile, $txt);
$txt = "Jane Doe\n";
fwrite($myfile, $txt);
fclose($myfile);
?>
```

newfile.txt

```
John Doe
Jane Doe
```

**Includere fisiere in PHP : Fisiere- open , read, close**

Moduri de deschidere fisiere

Modes	Description
r	<b>Open a file for read only.</b> File pointer starts at the beginning of the file
w	<b>Open a file for write only.</b> Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a	<b>Open a file for write only.</b> The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x	<b>Creates a new file for write only.</b> Returns FALSE and an error if file already exists
r+	<b>Open a file for read/write.</b> File pointer starts at the beginning of the file
w+	<b>Open a file for read/write.</b> Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a+	<b>Open a file for read/write.</b> The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x+	<b>Creates a new file for read/write.</b> Returns FALSE and an error if file already exists



## SGBD MySQL

**MySQL**: SGBD foarte rapid si robust permite accesul multi-user si multi-thread (mai multe fire de executie). Utilizeaza limbajul SQL.

**Istoric MySQL:**

- ❑ apare in 1979
- ❑ disponibil public din 1996

**Adresa web MySQL:** <http://www.mysql.com>

**Caracteristici generale:**

- ❑ gratuit
- ❑ Open Source, dar si cu licente comerciale.



## Clienti MySQL

<b>AEROSPACE, DEFENSE</b> » Los Alamos National Laboratory » NASA » US Navy » MORE	<b>EDUCATION</b> » Ladok » College of William & Mary » Scholastic » MORE	<b>FINANCIAL SERVICES</b> » Wealthfront » Bank of Finland » HypoVereinsbank » MORE
<b>GOVERNMENT</b> » WhiteHouse.Gov » United Nations FAO » US Navy » MORE	<b>HEALTHCARE, PHARMA</b> » Sahlgrenska University Hospital » UCR » Candelis » MORE	<b>MEDIA &amp; ENTERTAINMENT</b> » MTV Networks » Big Fish » Netflix » MORE
<b>RETAIL</b> » Glasses Direct » The Phone House Telecom GmbH » Leader Price » MORE	<b>SMALL &amp; MEDIUM BUSINESS</b> » Clickability » thePlatform » MORE	<b>TECHNOLOGY: HARDWARE</b> » Candelis » Hitachi Data Systems » Sandstorm Enterprises » MORE



## Clienti MySQL

TECHNOLOGY: OPEN SOURCE PROJECTS	TECHNOLOGY: SOFTWARE	TELECOM
» Glassfish Open Message Queue (OpenMQ)	» DocQ	» The Phone House Telecom GmbH
» Amarok	» EMC	» Tellme Networks
» FreeRADIUS	» Intellitactics	» Italtel
» MORE	» MORE	» MORE
TRAVEL & HOSPITALITY	WEB: ECOMMERCE	WEB: GAMES
» LAN AIRLINES S.A.	» iStockphoto	» King Digital Entertainment - Candy Crush
» Datagest	» Airbnb	» LeoVegas
» Priceline.com (Europe)	» Uber	» Toto-Lotto Niedersachsen
» MORE	» MORE	» MORE
WEB: SAAS, HOSTING	WEB: SOCIAL NETWORKS	
» Clickability	» Tumblr	
» Magus	» LinkedIn	
» Atos Worldline	» Facebook	
» MORE	» MORE	



## PHP si MySQL

PHP 5 (si versiunile ulterioare) se conecteaza cu baze de date MySQL prin:

- **extensia MySQLi** ( "i" de la improved): permite conectarea doar cu BD MySQL in 2 moduri:
  - Object Oriented si
  - Procedural

<http://php.net/manual/en/mysqli.installation.php>

- **PDO (PHP Data Objects):** permite conectarea cu 12 tipuri diferite de BD

<http://php.net/manual/en/pdo.installation.php>



## Deschidere conexiune la BD MySQL cu MySQLi Object-Oriented

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

### Inchidere conexiune

```
$conn->close();
```



## Deschidere conexiune la BD MySQL cu MySQLi Procedural

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

### Inchidere conexiune

```
mysqli_close($conn);
```



## Deschidere conexiune PHP la BD MySQL cu PDO

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";

try {
    $conn = new PDO("mysql:host=$servername;dbname=myDB", $username, $password);
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    echo "Connected successfully";
}
catch(PDOException $e)
{
    echo "Connection failed: " . $e->getMessage();
}
?>
```

## Inchidere conexiune

```
$conn = null;
```



## Creare BD utilizand PHP si MySQLi Object-oriented

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create database
$sql = "CREATE DATABASE myDB";
if ($conn->query($sql) === TRUE) {
    echo "Database created successfully";
} else {
    echo "Error creating database: " . $conn->error;
}

$conn->close();
?>
```

**Exemplu creare tabel in BD utilizand PHP si MySQLi Object-oriented**

Se creeaza un tabel "MyGuests", cu 5 coloane:

1. "id",
2. "firstname",
3. "lastname",
4. "email" si
5. "reg\_date":

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// sql to create table
$sql = "CREATE TABLE MyGuests (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
firstname VARCHAR(30) NOT NULL,
lastname VARCHAR(30) NOT NULL,
email VARCHAR(50),
reg_date TIMESTAMP
)";

if ($conn->query($sql) === TRUE) {
    echo "Table MyGuests created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}
```

**Exemplu inserare date in BD utilizand PHP si MySQLi Object-oriented**

```
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com')";

if ($conn->query($sql) === TRUE) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
```



## Exemplu inserare multipla date in BD utilizand PHP si MySQLi Object-oriented

```
$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Mary', 'Moe', 'mary@example.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Julie', 'Dooley', 'julie@example.com');"

if ($conn->multi_query($sql) === TRUE) {
    echo "New records created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
```



## Exemplu interogare date in BD cu SELECT utilizand PHP si MySQLi Object-oriented

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " . $row["lastname"]. "
<br>";
    }
} else {
    echo "0 results";
}
$conn->close();
?>
```

Rezultate afisate

```
id: 1 - Name: John Doe
id: 2 - Name: Mary Moe
id: 3 - Name: Julie Dooley
```



## Exemplu stergere date din BD cu DELETE utilizand PHP si MySQLi Object-oriented

Fie tabelul "MyGuests": se sterge al 3-lea articol/linie

id	firstname	lastname	email	reg_date
1	John	Doe	john@example.com	2014-10-22 14:26:15
2	Mary	Moe	mary@example.com	2014-10-23 10:22:30
3	Julie	Dooley	julie@example.com	2014-10-26 10:48:23

```
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// sql to delete a record
$sql = "DELETE FROM MyGuests WHERE id=3";

if ($conn->query($sql) === TRUE) {
    echo "Record deleted successfully";
} else {
    echo "Error deleting record: " . $conn->error;
}
```



## Exemplu modificare date din BD cu UPDATE utilizand PHP si MySQLi Object-oriented

Fie tabelul "MyGuests": se modifica campul lastname pentru articolul 2 in Doe

id	firstname	lastname	email	reg_date
1	John	Doe	john@example.com	2014-10-22 14:26:15
2	Mary	Moe	mary@example.com	2014-10-23 10:22:30

```
$sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";

if ($conn->query($sql) === TRUE) {
    echo "Record updated successfully";
} else {
    echo "Error updating record: " . $conn->error;
}
```

### Rezultat

id	firstname	lastname	email	reg_date
1	John	Doe	john@example.com	2014-10-22 14:26:15
2	Mary	Doe	mary@example.com	2014-10-23 10:22:30



## Validare cod PHP on line

- [PHP Sandbox, test PHP online, PHP tester](#)
- [Write Code Online - PHP | start write and run php code online](#)
- [eval.in](#)
- [Execute PHP Script Online](#)
- [Nitrous.IO](#)



## Validare cod PHP on line Sandbox

Your script:

```
1  <?php
2      //Enter your code here, enjoy!
3
4  $array = array("1" => "PHP code tester Sandbox Online",
5                 "foo" => "bar", 5 , 5 => 89009,
6                 "case" => "Random Stuff: " . rand(100,999),
7                 "PHP Version" => phpversion()
8 );
9
10 foreach( $array as $key => $value ){
11     echo $key."\t=>\t".$value."\n";
12 }
13
14
```

Result:

```
1 => PHP code tester Sandbox Online
foo => bar
2 => 5
5 => 89009
case => Random Stuff: 644
PHP Version => 7.0.3
```

Run on PHP version:

Execute code



Curs: PIGMC, Master an II, sem I

## Validare cod PHP on line



The screenshot shows a web-based PHP code editor and execution environment. At the top, there's a navigation bar with links for 'Crontab Generator', 'PHP Functions', 'PHP Beautifier', and 'Play Pokémons GO'. Below the bar is a code input area containing the following PHP code:

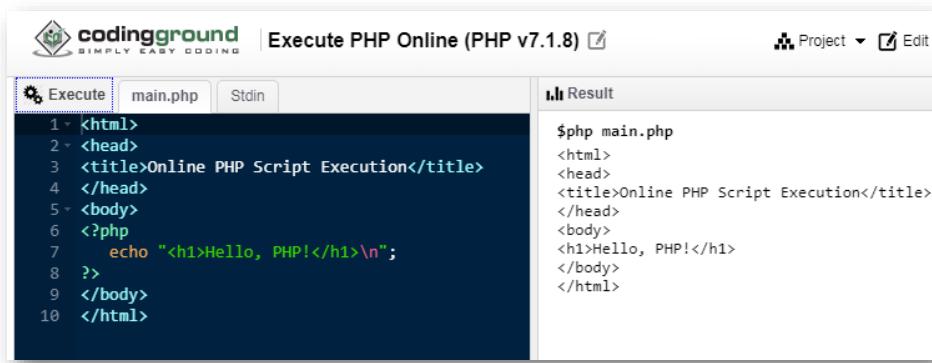
```
<?php  
1 echo 'Hello Laura!';
```

Below the code area is a large, empty light-blue rectangular box. At the bottom right of the page is a blue button labeled 'Run Code'. Underneath the code input area, there's a text input field with the placeholder 'Run PHP Online' and a small preview window below it showing the output 'Hello Laura!'.



Curs: PIGMC, Master an II, sem I

## Validare cod PHP on line



The screenshot shows a web-based PHP code editor and execution environment from codingground.net. At the top, there's a header with the 'codingground' logo and the text 'SIMPLY EASY CODING | Execute PHP Online (PHP v7.1.8)'. On the right side of the header are 'Project' and 'Edit' dropdown menus. Below the header, there are two tabs: 'Execute' (which is selected) and 'Stdin'. The main area contains the following PHP code:

```
1 <html>  
2 <head>  
3 <title>Online PHP Script Execution</title>  
4 </head>  
5 <body>  
6 <?php  
7 echo "<h1>Hello, PHP!</h1>\n";  
8 ?>  
9 </body>  
10 </html>
```

To the right of the code area is a 'Result' panel showing the output of the executed code:

```
$php main.php  
<html>  
<head>  
<title>Online PHP Script Execution</title>  
</head>  
<body>  
<h1>Hello, PHP!</h1>  
</body>  
</html>
```



## Aplicatii complexe PHP

1. E-Commerce
2. Graphical User Interface: desktop GUI applications utilizand PHP extensions:
  - [PHP GTK](#) - This extension is a popular open source that implements the GIMP toolkit
  - [ZZEE PHP GUI](#) - A paid solution that allows you to turn your PHP scripts into Windows applications
3. Forum de discutii
  - [php BB](#)
  - [vBulletin](#)
  - [Pun BB](#)
4. Aplicatii Facebook
  - [Facebook developer's wiki](#)
5. Liste de email : Mailing Lists
6. PHP Photo Gallery
- 7.CMS:
  - [Drupal](#)
  - [Wordpress, Joomla](#)
8. Grafice web: PHPChart



## Formulare si chestionare on line: Survey Monkey

Creare formular:

- usor, exista o serie de template-uri
- se pot crea intrebari cu logica
- nu se genereaza codul sursa doar

The screenshot shows the SurveyMonkey library interface. It features a sidebar with 'My Surveys' and 'Library' tabs. The main area displays sections for 'TEMPLATES', 'THEMES', 'IMAGES', and 'DOCUMENTS'. A central text box says 'See what the library can do for you' and provides instructions for creating custom templates and sharing them. At the bottom, there are buttons for 'Don't show again' and 'Tell Me More'.

And here's our full list of sample survey questionnaires:

360 degree Feedback	Makeup Products Feedback
Airline Passenger Feedback	Management Performance
Before They Were Famous Survey	Market Research—Product Feedback
Brand Awareness Survey	Market Research—Service Feedback
Bullying Survey	Market Research Template
Business to Business Survey	Mobile Apps Survey
Business to Consumer Forum	Movie and TV Viewing Habit Surveys
CAHPS Dental Plan Survey	Movie Viewing Survey
CAHPS Health Plan Survey 4.0	Music Listening Survey
CAHPS Survey Template	Neighborhood Events Survey
CAHPS Visit Survey	Neighborhood Feedback Survey
Child Behaviors Survey	Net Promoter Score Questionnaire Template
Community Survey	Non-profit Organization Information
Customer Comments Feedback	Temp
Customer Satisfaction Survey	NPS and Brand Loyalty Survey
Customer Service Feedback	Online Social Networking Survey
Customer Service Survey	Parent Engagement Survey
Department Performance Poll	Parental Support Survey
Diet & Exercise Survey	Personal Hygiene Questionnaire
Do You Have Health Insurance?	Post-Visit Patient Satisfaction Survey
Domestic Violence	Pre-K-12 Parent Survey Template
Education Demographics Survey	Professional Event Feedback
Employee Benefits Survey	Real Estate Agent Evaluation
Employee Exit Survey	Recruitment Satisfaction Survey
Employee Performance Review	Retail Customer Feedback
Employee Survey	RSVP and Contact Information Form
Endurance Event Feedback	School Program Fit Questionnaire
Endurance Event Feedback	Employee Engagement Template
Entertainment Event Feedback	Skin Care Products Feedback
Environmental Issues Poll	Smoking Survey
Event Planning Questionnaire	Social Support Survey
Facebook Profile Questionnaire	Software Evaluation
Facebook Survey Template	Supervisor Performance Evaluation
Favorite Celebrities Poll	Target Audience Analysis Questionnaire
Facebook Survey Template	Team Performance Survey
Facebook Survey Template	TV Viewing Survey
Fundraising Feedback	Typical Customer Analysis Survey
General Event Feedback	Typical Customer Demographics Survey
General Internet Usage	University Faculty Satisfaction Survey
HCAHPS Survey Template	University Instructor Evaluation
Health Insurance Evaluation	University Student Graduation Form
Healthcare Expenses Feedback	University Student Satisfaction Survey
High School Weight Survey	University Teaching Assistant Evaluation
High School Sports – Student Feedback	
Hospital Performance Evaluation	
Hotel Feedback	



## Aplicatie

**Enunt:** Creati o interfete pentru calcul marimi electrice:

- calculul rezistentelor si capacitatiilor conectate in serie, respectiv paralel
- calcule in circuite electrice