

INTRODUCTION TO PHP

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INTRODUCTION TO PHP

- Php firstly called **Personal Home Page**
- It will then changed to **Hypertext Preprocessor**
- **Used to develop dynamic web page**
- **Extension of file .php**
- **Loosely typed language:** no need to define type of variable
- **Installation includes 1st to install web server, then install php, lastly install database MYSQL**

Php Start and End Tags

- Standard php tags:

`<?php /*...*/ ?>`

- Script Tags:

`<script language="php">...</script>`

- Short Tags:

`<? /*...*/ ?>`

- ASP style Tags:

`<% /*...*/ %>`

Comments in Php

- Single line Comment

// This is a single-line comment

This is also a single-line comment

- Multi line Comment

/*

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

***/**

Php Variable

- Rules:
 - Starts with '\$' sign
 - After '\$' sign it must start with '_' or letter
 - Only alpha-numeric and underscore allowed
 - Case-sensitive
- Example:
\$name, \$_name valid variable names

Php Echo and Print Statement

ECHO

- NO RETURN VALUE
- MULTIPLE PARAMETERS
- FASTER
- echo "hello"

VS

PRINT

- RETURN VALUE OF 1
- ONE ARGUMENT
- SLOWER
- print "hello"

Php DataTypes

- String
- Integer
- Float (floating point numbers - also called double)
- Boolean
- Array
- Object
- NULL
- Resource

Php Constant

- Can't changed
- Syntax:

define(name, value, case-insensitive);

- Example:

```
define("pie",3.14);
```


Php Operators

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

Php Operators

- Arithmetic operators

- Addition

- $\$x + \y

- Subtraction

- $\$x - \y

- Multiplication

- $\$x * \y

- Division

- $\$x / \y

- Modulus

- $\$x \% \y

- Exponentiation

- $\$x ** \y

Php Operators

- Assignment operators

`$x = $y`

`$x += $y ($x=$x+$y)`

`$x *= $y ($x=$x*$y)`

`$x /= $y ($x=$x/$y)`

`$x %= $y ($x=$x%$y)`

Php Operators

- Comparison operators
- Equal (`$x==$y`)
- Identical (`$x===$y`)
- Not Equal (`$x!=$y` or `$x<>$y`)
- Not Identical (`$x!==$y`)
- Greater Than (`$x>$y`)
- Less Than (`$x<$y`)
- Greater Than Equal to (`$x>=$y`)
- Less Than Equal to (`$x<=$y`)

Php Operators

- Increment/Decrement operators

- Pre-increment

`$++x`

- Post-increment

`$x++`

- Pre-decrement

`$--x`

- Post-decrement

`$x--`

Php Operators

- Logical operators

- AND

`$x and $y`

- OR

`$x or $y`

- XOR

`$x or $y`

- &&

`$x && $y`

- ||

`$x || $y`

- !

`!$x`

Php Operators

- String Operator
- Concatenation

`$x . $y`

- Concatenation assignment

`$x .= $y`

Php Flow Control Statements

- **if**
- **if...else**
- **if...else if...else**
- **switch**

Php Flow Control Statements

- **if**

```
if (condition) {  
    code;  
}
```

- **Example:**

```
<?php  
$x=2;  
If($x<1){echo "Hello World";}?  
>
```

Php Flow Control Statements

- **If...else**

```
if (condition) {  
    code;  
}  
else {  
    code;  
}
```

- **Example:**

```
<?php  
$x=2;  
If($x<1){echo "Hello World";}   
else{"condition false";}   
?>
```

Php Flow Control Statements

- **If...else if...else**

```
if (condition) {  
    code;  
} else if(condition){  
    code;  
}else{  
    code;  
}
```

- **Example:**

```
<?php  
$x=2;  
If($x<1){echo "1st condition";}   
else if($x>2){echo "condition second";}   
else {echo "condition false";}   
?>
```

Php Flow Control Statements

- **Switch**

- ```
switch (n) {
 case label1:
 code if n=label1;
 break;
 case label2:
 code if n=label2;
 break;
 case label3:
 code if n=label3;
 break;
 ...
 default:
 code if n not match;
}
```

# Php Flow Control Statements

- **Example:**

```
<?php
$favFlower = "Rose";

switch ($favFlower) {
 case "rose":
 echo "Rose!";
 break;
 case "Lotus":
 echo "Lotus!";
 break;
 case "Lily":
 echo "Lily!";
 break;
 default:
 echo "No One!";
}
?>
```

# Php Loops

- **While**
- **Do...While**
- **For**
- **Foreach**

# Php Loops

- **While**

```
while (condition is true) {
 code
}
```

- **Example:**

```
while($x <= 8) {
 echo "$x
";
 $x++;
}
```

# Php Loops

- **Do...While**

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

- **Example:**

```
do {
 echo "$x";
 $x++;
} while ($x <= 8);
```



# Php Loops

- **For**

```
for (initialization;test;increment) {
 code;
}
```

- **Example:**

```
for ($x = 0; $x <= 5; $x++) {
 echo "$x
";
}
```

# Php Loops

- **Foreach**

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

- **Example:**

```
$flowers=("rose","lotus","lily")
foreach ($flowers as $value) {
 echo "$value
";
}
```

# Php Arrays

- Indexed Arrays

```
$flowers=array("lotus", "lily", "rose");
```

- Associative Arrays ("key"=> "value")

```
$age = array("om"=>"15", "rim"=> "37");
```

- Multidimensional Arrays

```
$colors = array
(
 array("rose",45,8),
 array("lily",12,5),
 array("rose",5,3),
);
```

# Php Functions

- **User Defined Function without argument**

```
function functionName() {
 code;
}
```

**Rule: function name can start with a letter or underscore**  
**function names are not case-sensitive**

```
<?php
 function hello()
 {
 echo "hello world";
 }
 hello(); //function calling
?
>
```

# Php Functions

- **Function with Argument**

```
<?php

function people ($name, $age) {
 echo "$name:$age
";
}

people("mark", "20");

?>
```

# Php Functions

- **Function with Default Argument Value**

```
<?php
 function age($a=20)
 {
 echo "age is $a";
 }
 age(30); //age=30
 age(); //age=20
?>
```

# Php Functions

- **Function with Return Value**

```
<?php
 function add($x,$y)
 {
 $z=$x+$y
 return $z;
 }
 $ans=add(4,6);
 echo "addition is: ".$ans;

?>
```