PHP

It is a **server side scripting** language which is basically used to develop **dynamic** and attractive website.

It is developed by the person named Rasmous Lerdarf in 1995.

PHP stands for **Hypertext Pre Processor**.

The earlier name of PHP was **Personal Home Page.**

Server: Service Provider

Client: Service Requester

Website:

1. Static Website (No Database)

2. Dynamic Website (Database involved)

**Requirement of developing/Running website:**

**Client:**

Browsers (Chrome,Mozilla)

**Server**

1. Webserver (Tomcat Apache/JBOSS/IIS)
2. PHP
3. Database

**Role of Web Server:**

It is used to fulfill the request of client.

Server

(Contains website)

Webserver

Database

PHP

Student.htm/Student.php

Client

Need Browser

Server Response:

Case Not Found:

1. Send HTTP 400 Error if page not found

Case Found

1. Send HTTP 200 Ok Code to client
2. Send Content to the client

PHP Language:

**PHP Scriptlet**: it is a php tag used in html to write php code.

Syntax,

<?php

All code of php will go here….

?>

**PHP Variables:** PHP variables are loosely typed, it means we do not need to declare the data type of variables.

Syntax,

$a=5;

$b=”Hello”;

$c=5.9;

**Scope of PHP Variables:**

1. PHP local variables (Declared inside a function) can be access only in that function where it is used.
2. PHP global variables (Declared in php scriptlet) can be access everywhere in scriptlet but not in function.
3. PHP super global variables (Predefined Variable) can be accessed everywhere.

**PHP print/echo statement:** To print anything on page.

Eg.

Echo “hello”; // Hello

$a=6;

echo $a; //6

echo “$a”;// 6

print $a;

**PHP Operators:**

1. **Arithmetic Operator**

**+ - \* / (% or mod)**

1. **Logical Operator**

**(&& or and) (||** or **or) (!** Or **not)**

1. **Increment Decrement Operator**

**++ --**

1. **Comparison Operator**

**< > <= >= == === != !==**

**Eg.**

$a=4;

$b=4.0;

$a==$b; true

$a===$b; false

1. **Concatenation Operator**

. (dot)

Eg.

$a=4;

$b=7;

$c=$a.$b; // 47

$d=$a+$b;// 11

**How to Run PHP**

1. **Install WAMP/LAMP/XAMP**

**W->** Windows

**A->** Apache (Web Server)

**M->** My SQL (Database)

**P ->** PHP (Programming Language)

**How to Declare Constant:**

**Syntax,**

Define(“constantname”,value);

**Eg.**

Define(a,8);

echo a;

**Loop and Conditions in PHP(**same as c**)**

1. If( cond)

{

Program…

}

1. If(cond)

{

Programs..

}

else

{

Programs…

}

1. If(cond)

{

}

elseif(cond)

{

}

else if(cond)

{  
}

else

{

}

**LOOP**

1. for(initialvalue;cond;inc/dec)

{

Program…

}

1. do

{

Program…

}

while(cond);

1. while(cond)

{

Programs…

}

**How PHP Works**

**How to submit data to the server**

1. Button type should be submit.
2. All form elements must be placed inside a form tag.

**Note: We use to method to submit data to the server.**

1. Using “get” method
2. Using “post” method

**What is the difference between “get” and “post” method?**

|  |  |
| --- | --- |
| **GET** | **POST** |
| Data is not getting encrypted while sending. | Data will be encrypted before sending to the server. |
| Speed is Fast. | Speed is slower. |
| Large Size of data will not be send. | Large size of data. |
| Data will be shown in URL. | Data will not be shown in URL. |
|  |  |

Server (localhost)

PHP, Apache,Database

Page3.php

Client (Browser)

PHP

T1=9 t2=3 t3= b1=Sum

Page3.php

**Assignment:**

**Make for to calculate:-**

1. **Square**
2. **Multiplication**
3. **Factorial**
4. **Even/Odd**
5. **Check Prime**