# PHP : Hypertext PreProcessor

## **Introduction**

Php is used by almost 20 million website and 2 million web servers across the world.

* Make website Function faster
* Create Dynamic Web pages
* Provide Security Encryption
* Cost-Efficient
* Compatibility
* Platform Independent

**What is php?**

PHP is Hypertext preprocessor, earlier known as Personal Home pages

PHP is Open Source Server side scripting language that is embedded into html and used for web development.

Php syntax starts with <?php and ends with ?>

**Features of php?**

* Simple : as it is easy to learn
* Highly flexible : Changes can be done without developer’s intervention
* Platform Independent : Runs on every platform (not require any specific plugin to run)
* Interpreted : Does not compile
* Fast : Loads website faster due to interpreter
* Open sOurce : Free to use
* Secure : PHP framworks provides security to website
* Large php community : Large, scalable and helpful community

**How Does PHP Works?**

* Sends the request from browser to server with the extension .php, The Server sends the php page request to php interpreter.PHP interpreter interprets the script to access the specific data as requested and then the server sends the html page according to the requirements.

**Major Companies :** Facebook, Wikipedia, Wordpress, Tumblr, Yahoo

**XAMPP : X – Cross platform**

**A – Apache**

**M – MariaDB**

**P – php**

**P – perl**

It is a open source application developed by Apache friends and the easiest way to host local web server with access to MySql database, php and perl.It is all in one package.

## **Programming Concept**

**Variables:**

Define Variable using $ signature

i.e, $num, $name etc.

For Printing use html and $var\_name

**Arrays:** Collection of same datatype

Function : array(values);

**var\_dump** – used to get datatype of the variable

**consonant** : Static variables

## **OOPs in PHP**

**Class** : The datatype consist of data and functions

The variables known as property and functions are calls as a method

**Objects :** It is a instance of a class

i.e, class car then bmw or farari is an object

Classes are incomplete without objects

Arrow function to access properties and methods of an object (->)

**Member Variable :** Define within the class, the data can be accessed by the member function alone.variables called attributes of the object.

**Member Function :** Define within the class, and used to access object data.

**Constructor :** It allows an individual to allot an object’s properties while in object creation.

**Destructor :** This function is called when object stops working.

**Inheritance : Derives new clasees from parent class.**

**Polymorphism**

## **METHODS**

There are 2 ways by which the browser client can send information to the web server

**GET :** GET methods send the encoded user information appended to the page request

It builts the long string that appears in the server logs

Has restrictions of sending upto 1024 characters only

Do not use GET method in case you want to share confidential information

It cannot be use to send images or word documents to the server

The data sent by GeT can be accessed by QUERY\_STRING environment variable.

**POST :** POST method send the information via HTTP headers

Does not have any restriction on datasize

It is used to send ASCII as well as images and documents

The information sent is secure.

**REQUEST:** REQUEST method collects the data from GET,POST and Cookies

## **MySQL Connection**

Make a form of registration and give name to all of them in html

Make Action on redirecting php file

Make a database and table name in phpMyAdmin sql db.

Store inputs using method in some variables and put into the sql query and done

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| Function | Purpose | Example |
| mysqli\_connect() | Connects to the database. | **$conn = mysqli\_connect('localhost', 'root', '', 'db');** |
| mysqli\_connect\_error() | Returns connection error. | **die('Error: ' . mysqli\_connect\_error());** |
| mysqli\_prepare() | Prepares an SQL statement. | |  | | --- | | $stmt = mysqli\_prepare($conn, "INSERT ..."); | |  | |
| mysqli\_stmt\_bind\_param() | Binds variables to placeholders. | |  | | --- | | mysqli\_stmt\_bind\_param($stmt, 'ssss', ...); | |  | |
| mysqli\_stmt\_execute() | Executes a prepared statement. | |  | | --- | | mysqli\_stmt\_execute($stmt); | |  | |
| mysqli\_error() | Returns the last error message. | |  | | --- | | echo "Error: " . mysqli\_error($conn); | |  | |
| mysqli\_stmt\_close() | Closes a prepared statement. | |  | | --- | | mysqli\_stmt\_close($stmt); | |  | |
| mysqli\_close() | Closes the database connection. | **mysqli\_close($conn);** |

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