KJSCE/IT/TYBTECH/SEMV/WP-II/2022-23 Experiment No. 1 **Title:** Simple PHP programs using basic programming Constructs

(A Constituent College of Somaiya Vidyavihar University)

Batch: Roll No.: Experiment No.:1

**Aim:** Write PHP programs using basic programming constructs.

Resources needed: Windows OS, Web Browser, Editor, XAMPP Server

## **Pre Lab/ Prior Concepts:**

Students should have prior knowledge of HTML/CSS/Basic Programming.

#### Theory:

## **PHP**

- 1. PHP is a server side scripting language.
- 2. It can be used to develop Static websites or Dynamic websites or Web applications.
- 3. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages.
- 4. PHP scripts can only be interpreted on a server that has PHP installed.
- 5. The client computers accessing the PHP scripts require a web browser only.
- 6. A PHP file contains PHP tags and ends with the extension ".php".
- 7. PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management system and webframeworks.

PHP supports the following data types:

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

#### **PHP String**

A string is a sequence of characters, like "Hello world!".

A string can be any text inside quotes. You can use single or double quotes:

```
<?php
$x = "Hello world!";
$y = 'Hello world!';
echo $x;
echo "<br>";
echo $y;
?>
```

PHP has a set of math functions that allows you to perform mathematical tasks on numbers.

For Example: The pi() function returns the value of PI

The abs() function returns the absolute (positive) value of a number

Other Examples: min(), max() etc..

## **PHP Conditional Statements**

if statement - executes some code if one condition is true

**if...else statement** - executes some code if a condition is true and another code if that condition is false

**if...elseif...else statement** - executes different codes for more than two conditions **switch statement** - selects one of many blocks of code to be executed

# Sample Code: if and if else example

```
if (condition) {
 code to be executed if condition is true;
} else {
 code to be executed if condition is false;
<?php
$t = date("H");
if ($t < "10") {
  echo "Have a good morning!";
} elseif ($t < "20") {</pre>
  echo "Have a good day!";
} else {
  echo "Have a good night!";
}
?>
```

Similarly all the conditional constructs such as for loop, switch case etc are available in PHP

#### **Echo and Print**

echo and print are more or less the same. They are both used to output data to the screen. The differences are small: echo has no return value while print has a return value of 1 so it can be used in expressions. echo can take multiple parameters (although such usage is rare) while print can take one argument. echo is marginally faster than print.

We can use html tags in php e.g. <br/> <br/>ts>, <b> used in the above example.

#### **Procedure:**

## **How to Run a PHP File in XAMPP?**

Step 1 : First Create PHP script using any editor like notepad, notepad++ etc. <?php echo "Welcome to the world of PHP."; ?>

Step 2 : Save file as following... firstProg.php
In C:xampp/htdocs/myproject/firstProg.php

Start XAMPP Apache server (first time only)

Step 3: Run the PHP script

Open Your browser and write in

Type url : localhost/myproject/firstProg.php

**Output:** 

Welcome to the world of PHP.

Output(Code with result Snapshot)

### **Post Lab Questions:-**

- 1. Explain Loops in PHP with example
- 2. Why chose PHP over other programming languages.

<b>Outcomes:</b>		
	(A Constituent College of Somaiya Vidyavihar University)	

# **Conclusion:** (Conclusion to be based on the objectives and outcomes achieved)

# Signature of faculty in-charge with date

#### **References:**

- 1. Thomson PHP and MySQL Web Development Addison-Wesley Professional , 5th Edition 2016.
- 2. Peter MacIntyre, Kevin Tatroe Programming PHP O'Reilly Media, Inc, 4th Edition 2020
- 3. Frank M. Kromann Beginning PHP and MySQL: From Novice to Professional, Apress 1st Edition, 2018