

SEC 2: PHP Programming

Practical: 50

Total Marks:25

Internal Assessment: 25

2 Lectures, 4 Practicals (each in group of 10 to 15)

Introduction to PHP:		
1. PHP introduction, inventions and versions, Important tools and software requirements (like Web Server, Database, Editors etc.)	(4L)	Chap 1, 2, 3 ref 3
2. PHP with other technologies, scope of PHP		
3. Basic Syntax, PHP variables and constants		
4. Types of data in PHP , Expressions, scopes of a variable (local, global)		
5. PHP Operators: Arithmetic, Assignment, Relational , Logical operators, Bitwise , ternary and MOD operator.		
6. PHP operator Precedence and associativity		
PHP conditional events and Loops:		(2L)
7. PHP IF Else conditional statements (Nested IF and Else)	Chap 4	ref 3
8. Switch case, while ,For and Do While Loop		
9. Goto , Break ,Continue and exit		
PHP Functions:		(2L)
10. Function, Need of Function , declaration and calling of a function	Chap 5	ref 4
11. PHP Function with arguments, Default Arguments in Function		
12. Function argument with call by value, call by reference		
13. Scope of Function Global and Local		
String Manipulation and Regular Expression:		(4L)
14. Creating and accessing String , Searching & Replacing String	Chap 4	ref 4 (upto table 4.5 pg 128)
15. Formatting, joining and splitting String , String Related Library functions		
16. Use and advantage of regular expression over inbuilt function		
17. Use of preg_match(), preg_replace(), preg_split() functions in regular expression	Pages ref 3 Pg 386-387, ref 5 sec 23.1, 23.9, 23.10	
Array:		(4L)
18. Anatomy of an Array ,Creating index based and Associative array ,Accessing array	Chap 6 Ref 3,	excluding Multi-dimension al arrays (pg 129 to 132)
19. Looping with Index based array, with associative array using each() and foreach()		
20. Some useful Library function		
Handling HTML form with PHP:		(6L)
21. Capturing Form Data	Section 9.17 and 9.18 ref 5, Chap 5 ref 1 except pg	
22. GET and POST form methods		
23. Dealing with multi value fields		
24. Redirecting a form after submission		

Shamul
04/01/2017

Shivam
04/01/2017

Shivam
04/01/17

Pratik
04/01/17

Ashwini
04/01/2017

Samiksha
4/01/2017

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	184 to 190
	(6L)
MySQL and PHP:	Chap 10
25. Working with Databases	ref 1

Reference Books:

1. Steven Holzner, "PHP: The Complete Reference Paperback", McGraw Hill Education (India), 2007.
2. Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)", Wiley India Private Limited, 2008.
3. Robin Nixon, "Learning PHP, MySQL, JavaScript, CSS & HTML5", 3rd Edition Paperback, O'reilly, 2014.
4. Luke Welling, Laura Thompson, "PHP and MySQL Web Development", 4th Edition, Addition Paperback, Addison-Wesley Professional, 2008.
5. David Sklar, Adam Trachtenberg, "PHP Cookbook: Solutions & Examples for PHP Programmers", 2014.

Note: Solutions of all these programs are available on <https://www.tutorialsduniya.com>

Software Lab Based on PHP

Any convenient architecture: WAMPP, LAMP, XAMPP, IIS, TomCat etc (any web server) may be used for the following lab exercises.

1. Create a PHP page which accepts string from user. After submission that page displays the reverse of provided string.
2. WAP to sort an array. (using built in php functions)
3. Write a menu driven PHP script that :
 - a. Removes the whitespaces from a string.
Sample string : 'The quick " " brown fox'
Expected Output : Thequick""brownfox
 - b. Checks if a string contains another string. (using built in php functions)
 - c. Checks if a string is all lower case. (using regex)
 - d. Replace the first 'the' of the following string with 'That'.
Sample : 'the quick brown fox jumps over the lazy dog.'
Expected Result : That quick brown fox jumps over the lazy dog.
4. Create a simple 'birthday countdown' script, the script will count the number of days between current day and birth day.
5. \$color = array('white', 'green', 'red')
 Write a PHP script which will display the colors in the following way :
 Output :
 white, green, red,
 - green
 - red
 - white
6. Using switch case and dropdown list display a "Hello" message depending on the language selected in drop down list.
7. Create a login page having user name and password. On clicking submit, a welcome message should be displayed if the user is already registered (i.e.name is present in the database) otherwise error message should be displayed.

Anand
04/01/2017

Shruti
04/01/2017

Yash
04/01/2017

Pank
04/01/17

Ashwini
04/01/2017

Samiksha
4/01/2017

PHP Programming Practical List

1. Create a PHP page which accepts string from user. After submission that page displays the reverse of provided string.

2. WAP to sort an array (using built in php functions).

3. Write a menu driven PHP script that:

a. Removes the whitespaces from a string.

Sample string: 'The quick " " brown fox'

Expected Output: Thequick""brownfox

b. Checks if a string contains another string. (using built in php functions)

c. Checks if a string is all lower case. (using regex)

d. Replace the first 'the' of the following string with 'That'.

Sample: 'the quick brown fox jumps over the lazy dog.'

Expected Result: That quick brown fox jumps over the lazy dog.

4. Create a simple 'birthday. countdown' script, the script will count the number of days between current day and birth day.

5. \$color = array('white', 'green', 'red')

Write a PHP script which will display the colors in the following way:

Output: white, green, red,

- green
- red
- White

6. Using switch case and dropdown list display a "Hello" message depending on the language selected in drop down list.

7. Create a login page having user name and password. On clicking submit, a welcome message should be displayed if the user is already registered (i.e. name is present in the database) otherwise error message should be displayed.

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8. Write a PHP program to check that the entered email id of the form username@domainname is valid and the domain name is present in the database table.

9. Create a database table containing the marks of students in three subjects along with their roll number and name. Create a PHP page to display the mark sheet of the student along with the grade obtained.

Self Learning Exercises PHP:

10. Create a PHP page using functions for comparing three integers and print the largest number.

11. Write a function to calculate the factorial of a number (non-negative integer). The function accept the number as an argument.

12. WAP to check whether the given number is prime or not.

13. WAP to print first n even numbers.

14. Write a PHP script that finds out the sum of first n odd numbers.

15. Write a PHP script that checks whether a passed string is palindrome or not? (A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run).

16. Write a PHP program to print Fibonacci series using recursion.

17. Create a script to construct the following pattern, using nested for loop.

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Note: Solutions of all these programs are available on <https://www.tutorialsduniya.com>

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