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***BATCH : B11***

***Database System and Web [15B11CI312]***

***Tutorial Sheet***

***Week 8***

***Q1)*** *Write a PHP script to display the following strings.*

*Sample Strings :*

*'Tomorrow I \'ll learn PHP global variables.'*

*'This is a bad command : del c:\\\*.\*'*

***Solution:***

*<?php*

*echo "Tomorrow I \'ll learn PHP global variables."."\n";*

*echo "This is a bad command : del c:\\\*.\*"."\n";*

*?>*

***Q2)*** *Write a Program to display count, from 5 to 15 using PHP.*

***Solution:***

*<?php*

*$count = 5;*

*while($count <= 15)*

*{*

*echo $count;*

*echo "<br>" ;*

*$count++;*

*}*

*?>*

***Q3)*** *Create a simple form that will collect data from user, such as user name, email and message text using PHP.*

***Solution:***

*1. HTML*

*<form method="post" action="process.php">*

*Name : <input type="text" name="user\_name" placeholder="Enter Your Name" /><br />*

*Email : <input type="email" name="user\_email" placeholder="Enter Your Email" /><br />*

*Message : <textarea name="user\_text"></textarea><br />*

*<input type="submit" value="Submit" />*

*</form>*

*2. PHP*

*<?php*

*//process.php*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {//Check it is coming from a form*

*$u\_name = $\_POST["user\_name"]; //set PHP variables like this so we can use them anywhere in code below*

*$u\_email = $\_POST["user\_email"];*

*$u\_text = $\_POST["user\_text"];*

*//print output text*

*print "Hello " . $u\_name . "!, we have received your message and email ". $u\_email;*

*print "We will contact you very soon!";*

*}*

*?>*

*3. PHP Validation*

*<?php*

*//process.php*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {//Check it is comming from a form*

*$u\_name = filter\_var($\_POST["user\_name"], FILTER\_SANITIZE\_STRING); //set PHP variables like this so we can use them anywhere in code below*

*$u\_email = filter\_var($\_POST["user\_email"], FILTER\_SANITIZE\_EMAIL);*

*$u\_text = filter\_var($\_POST["user\_text"], FILTER\_SANITIZE\_STRING);*

*if (empty($u\_name)){*

*die("Please enter your name");*

*}*

*if (empty($u\_email) || !filter\_var($u\_email, FILTER\_VALIDATE\_EMAIL)){*

*die("Please enter valid email address");*

*}*

*if (empty($u\_text)){*

*die("Please enter text");*

*}*

*//print output text*

*print "Hello " . $u\_name . "!, we have received your message and email ". $u\_email;*

*print "We will contact you very soon!";*

*}*

*?>*

***Q4)*** *Write a PHP Library file which has methods for sorting strings using bubble sort, Insertion sort and selection sort (only for strings). Design Sorting service page where it asks user to select sorting technique and Ask user to enter strings to be sorted. When user clicks on sort button it should display results in text area which displays input strings and proper output strings in sorted area.*

***Solution:***

*<?php*

*function bubble\_Sort($my\_array )*

*{*

*do*

*{*

*$swapped = false;*

*for( $i = 0, $c = count( $my\_array ) - 1; $i < $c; $i++ )*

*{*

*if( $my\_array[$i] > $my\_array[$i + 1] )*

*{*

*list( $my\_array[$i + 1], $my\_array[$i] ) =*

*array( $my\_array[$i], $my\_array[$i + 1] );*

*$swapped = true;*

*}*

*}*

*}*

*while( $swapped );*

*return $my\_array;*

*}*

*$test\_array = array(3, 0, 2, 5, -1, 4, 1);*

*echo "Original Array :\n";*

*echo implode(', ',$test\_array );*

*echo "\nSorted Array\n:";*

*echo implode(', ',bubble\_Sort($test\_array)). PHP\_EOL;*

*?>*

***Q5)*** *Write a PHP program which reads a text (only alphabetical characters and spaces.) and prints two words. The first one is the word which is arise most frequently in the text. The second one is the word which has the maximum number of letters. Note: A word is a sequence of letters which is separated by the spaces.*

***Input:*** *A text is given in a line with following condition: a. The number of letters in the text is less than or equal to 1000. b. The number of letters in a word is less than or equal to 32. c. There is only one word which is arise most frequently in given text. d. There is only one word which has the maximum number of letters in given text.*

***Sample Input:*** *Thank you for your comment and your participation. Sample Output: your participation.*

***Solution:***

*<?php*

*$str = trim(fgets(STDIN));*

*$arr = explode(' ', $str);*

*$arr2 = array\_count\_values($arr);*

*$word1 = array\_search(max($arr2), $arr2);*

*$word2 = '';*

*foreach ($arr as $s) {*

*if (strlen($s) > strlen($word2)) {*

*$word2 = $s;*

*}*

*}*

*printf("%s %s\n", $word1, $word2);*

*?>*

***Q6)*** *Create a database testdb in Mysql from PHP and then create a table student (emp\_id, emp\_Name, emp\_address, emp\_salary, joining date) and perform following operations:*

*(a) Insert the records.*

*(b) Delete records.*

*(c) Perform update operation.*

***Solution:***

*Create database first.*

*Next create a table:*

*CREATE TABLE employee(*

*emp\_id INT NOT NULL AUTO\_INCREMENT,*

*emp\_name VARCHAR(20) NOT NULL,*

*emp\_address VARCHAR(20) NOT NULL,*

*emp\_salary INT NOT NULL,*

*join\_date timestamp(14) NOT NULL,*

*primary key ( emp\_id ));*

*<?php*

*$dbhost = 'localhost:3036';*

*$dbuser = 'root';*

*$dbpass = 'rootpassword';*

*$conn = mysql\_connect($dbhost, $dbuser, $dbpass);*

*if(! $conn ) {*

*die('Could not connect: ' . mysql\_error());*

*}*

*$query\_file = 'sql\_query.txt';*

*$fp = fopen($query\_file, 'r');*

*$sql = fread($fp, filesize($query\_file));*

*fclose($fp);*

*mysql\_select\_db('test\_db');*

*$retval = mysql\_query( $sql, $conn );*

*if(! $retval ) {*

*die('Could not create table: ' . mysql\_error());*

*}*

*echo "Table employee created successfully\n";*

*mysql\_close($conn);*

*?>*

***(a) Inserting records:***

*<?php*

*$dbhost = 'localhost:3036';*

*$dbuser = 'root';*

*$dbpass = 'rootpassword';*

*$conn = mysql\_connect($dbhost, $dbuser, $dbpass);*

*if(! $conn ) {*

*die('Could not connect: ' . mysql\_error());*

*}*

*$sql = 'INSERT INTO employee '.*

*'(emp\_name,emp\_address, emp\_salary, join\_date) '.*

*'VALUES ( "guest", "XYZ", 2000, NOW() )';*

*mysql\_select\_db('test\_db');*

*$retval = mysql\_query( $sql, $conn );*

*if(! $retval ) {*

*die('Could not enter data: ' . mysql\_error());*

*}*

*echo "Entered data successfully\n";*

*mysql\_close($conn);*

*?>*

***(b) Delete Records:***

*<html>*

*<head>*

*<title>Delete a Record from MySQL Database</title>*

*</head>*

*<body>*

*<?php*

*if(isset($\_POST['delete'])) {*

*$dbhost = 'localhost:3036';*

*$dbuser = 'root';*

*$dbpass = 'rootpassword';*

*$conn = mysql\_connect($dbhost, $dbuser, $dbpass);*

*if(! $conn ) {*

*die('Could not connect: ' . mysql\_error());*

*}*

*$emp\_id = $\_POST['emp\_id'];*

*$sql = "DELETE FROM employee WHERE emp\_id = $emp\_id" ;*

*mysql\_select\_db('test\_db');*

*$retval = mysql\_query( $sql, $conn );*

*if(! $retval ) {*

*die('Could not delete data: ' . mysql\_error());*

*}*

*echo "Deleted data successfully\n";*

*mysql\_close($conn);*

*}else {*

*?>*

*<form method = "post" action = "<?php $\_PHP\_SELF ?>">*

*<table width = "400" border = "0" cellspacing = "1"*

*cellpadding = "2">*

*<tr>*

*<td width = "100">Employee ID</td>*

*<td><input name = "emp\_id" type = "text"*

*id = "emp\_id"></td>*

*</tr>*

*<tr>*

*<td width = "100"> </td>*

*<td> </td>*

*</tr>*

*<tr>*

*<td width = "100"> </td>*

*<td>*

*<input name = "delete" type = "submit"*

*id = "delete" value = "Delete">*

*</td>*

*</tr>*

*</table>*

*</form>*

*<?php*

*}*

*?>*

*</body>*

*</html>*

***(c)******Update Records:***

*<?php*

*if(isset($\_POST['update'])) {*

*$dbhost = 'localhost:3036';*

*$dbuser = 'root';*

*$dbpass = 'rootpassword';*

*$conn = mysql\_connect($dbhost, $dbuser, $dbpass);*

*if(! $conn ) {*

*die('Could not connect: ' . mysql\_error());*

*}*

*$emp\_id = $\_POST['emp\_id'];*

*$emp\_salary = $\_POST['emp\_salary'];*

*$sql = "UPDATE employee ". "SET emp\_salary = $emp\_salary ".*

*"WHERE emp\_id = $emp\_id" ;*

*mysql\_select\_db('test\_db');*

*$retval = mysql\_query( $sql, $conn );*

*if(! $retval ) {*

*die('Could not update data: ' . mysql\_error());*

*}*

*echo "Updated data successfully\n";*

*mysql\_close($conn);*

*}else {*

*?>*

*<form method = "post" action = "<?php $\_PHP\_SELF ?>">*

*<table width = "400" border =" 0" cellspacing = "1"*

*cellpadding = "2">*

*<tr>*

*<td width = "100">Employee ID</td>*

*<td><input name = "emp\_id" type = "text"*

*id = "emp\_id"></td>*

*</tr>*

*<tr>*

*<td width = "100">Employee Salary</td>*

*<td><input name = "emp\_salary" type = "text"*

*id = "emp\_salary"></td>*

*</tr>*

*<tr>*

*<td width = "100"> </td>*

*<td> </td>*

*</tr>*

*<tr>*

*<td width = "100"> </td>*

*<td>*

*<input name = "update" type = "submit"*

*id = "update" value = "Update">*

*</td>*

*</tr>*

*</table>*

*</form>*

*<?php*

*}*

*?>*