Lab Cycle 3

CO4: Do Client-side & Server-side scripting

<div style="border:1px solid black">

Program # 13

13.Build a PHP code to store name of students in an array and display it using print_r function. Sort and display the same using asort & arsort functions.

</div>

PROGRAM CODE

```php
<!DOCTYPE html>
<html>
<head>
    <title>ArraySort</title>
    <style>
    body{
      max-width: 700px;
      margin: auto;
      border-style: outset;
    }
  </style>
  </head>
  <body><br>
    <center><h2>SORTING ARRAYS</h2></center><br>
<?php
$students = array("Anu", "Aiswarya", "Aleena", "Arun");
echo "<br>";
echo "<b>ORIGINAL  INDEXED ARRAY : </b>";
echo "<br>";
echo "<br>";
print_r($students);
sort($students);
echo "<br><b>Sorted array (sort): </b>";
echo "<br>";
print_r($students);
rsort($students);
echo "<br><b>Sorted array (rsort): </b>";
echo "<br>";
print_r($students);
$age = array("Meenakshy"=>"12", "Aiswarya"=>"20", "Aleena"=>"3","Arun"=>"2");
echo "<b><br><br>ORIGINAL ASSOCIATED ARRAY : </b>";
echo "<br>";
```

```php
echo "<br>";
print_r($age);
asort($age);
echo "<br><b>Sorted array (asort): </b>";
echo "<br>";
print_r($age);
arsort($age);
echo "<br><b>Sorted array (arsort): </b>";
echo "<br>";
print_r($age);
ksort($age);
echo "<br><b>Sorted array (ksort): </b>";
echo "<br>";
print_r($age);
krsort($age);
echo "<br><b>Sorted array (krsort): </b>";
echo "<br>";
print_r($age);
?>
<br><br><br>
</body>
</html>
```

OUTPUT

SORTING ARRAYS

ORIGINAL INDEXED ARRAY :

Array ([0] => Anu [1] => Aiswarya [2] => Aleena [3] => Arun)
Sorted array (sort):
Array ([0] => Aiswarya [1] => Aleena [2] => Anu [3] => Arun)
Sorted array (rsort):
Array ([0] => Arun [1] => Anu [2] => Aleena [3] => Aiswarya)

ORIGINAL ASSOCIATED ARRAY :

Array ([Meenakshy] => 12 [Aiswarya] => 20 [Aleena] => 3 [Arun] => 2)
Sorted array (asort):
Array ([Arun] => 2 [Aleena] => 3 [Meenakshy] => 12 [Aiswarya] => 20)
Sorted array (arsort):
Array ([Aiswarya] => 20 [Meenakshy] => 12 [Aleena] => 3 [Arun] => 2)
Sorted array (ksort):
Array ([Aiswarya] => 20 [Aleena] => 3 [Arun] => 2 [Meenakshy] => 12)
Sorted array (krsort):
Array ([Meenakshy] => 12 [Arun] => 2 [Aleena] => 3 [Aiswarya] => 20)

Program # 14

14.Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

PROGRAM CODE

```php
<!DOCTYPE html>
<head>
    <title>Indian Cricket Players</title>
    <style>
        table {
            border-collapse: collapse;
            width: 50%;
            margin: 50px auto;

        }
        th, td {
            border: 1px solid #dddddd;
            text-align: center;
            padding: 15px;
        }
        th {
            background-color: red;
        }
    </style>
</head>
<body>
<center><h2>Indian Cricket Players</h2></center>
<?php
$Players = array(
    "Sachin Tendulkar",
    "MS Dhoni",
    "Virat Kohli",
    "Shubman Gill",
    "Jaspreet Bumrah",
    "Rohit Sharma",
    "Shikhar Dhawan",
    "Hardik Pandya",
    "KL Rahul",
    );
?>
<table>
```

```
    <thead>
        <tr>
            <th><center>Indian Cricket Players</center></th>
        </tr>
    </thead>
    <tbody>
        <?php
        foreach ($Players as $player) {
            echo "<tr><td>$player</td></tr>";
        }
        ?>
        </tbody>
  <thead>
</table>
</body>
</html>
```

OUTPUT

Indian Cricket Players

Indian Cricket Players
Sachin Tendulkar
MS Dhoni
Virat Kohli
Shubman Gill
Jaspreet Bumrah
Rohit Sharma
Shikhar Dhawan
Hardik Pandya
KL Rahul

<div style="border: 2px solid black; padding: 20px;">

Program # 15

15.Design a registration form in HTML, and do necessary validations using PHP

</div>

PROGRAM CODE

```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>MITS MCA Registration Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: white;
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    form {
      max-width: 600px;
      margin: 20px auto;
      padding: 20px;
      background: #fff;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    label {
      display: block;
      margin-bottom: 8px;
    }

    input,
    select {
      width: 100%;
      padding: 8px;
      margin-bottom: 16px;
```

```css
      box-sizing: border-box;
    }

    button {
      background-color: #4caf50;
      color: #fff;
      padding: 10px 15px;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }

    button:hover {
      background-color: #45a049;
    }
  </style>
</head>

<body>
```

```html
  <form id="registrationForm" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="post"
    onsubmit="return validateForm()">
    <h2>
      <center>MCA REGISTRATION FORM</center>
    </h2>

    <label for="fullName">Full Name<span style="color: red;">*</span>:</label>
    <input type="text" id="fullName" name="fullName" required>

    <label for="email">Email<span style="color: red;">*</span>:</label>
    <input type="email" id="email" name="email" required>

    <label for="phoneNumber">Phone Number<span style="color:
red;">*</span>:</label>
    <input type="tel" id="phoneNumber" name="phoneNumber" pattern="[0-9]{10}"
required>

    <label for="gender">Gender<span style="color: red;">*</span>:</label>
    <select id="gender" name="gender" required>
      <option value="male">Male</option>
      <option value="female">Female</option>
      <option value="other">Other</option>
    </select>
```

```html
    <label for="qualification">Qualification<span style="color:
red;">*</span>:</label>
    <input type="text" id="qualification" name="qualification" required>

    <label for="yearOfAdmission">Year of Admission<span style="color:
red;">*</span>:</label>
    <input type="number" id="yearOfAdmission" name="yearOfAdmission" min="2000"
max="2023" required>

    <label for="password">Password<span style="color: red;">*</span>:</label>
    <input type="password" id="password" name="password" required>

    <label for="confirmPassword">Confirm Password<span style="color:
red;">*</span>:</label>
    <input type="password" id="confirmPassword" name="confirmPassword" required>



    <br>

    <button type="submit" name="submit">Submit</button>
  </form>

  <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        // Collect form data
        $fullName = $_POST["fullName"];
        $email = $_POST["email"];
        $phoneNumber = $_POST["phoneNumber"];
        $gender = $_POST["gender"];
        $qualification = $_POST["qualification"];
        $yearOfAdmission = $_POST["yearOfAdmission"];
        $password = $_POST["password"];
        $confirmPassword = $_POST["confirmPassword"];

        $errors = array();

        if (empty($fullName) || empty($email) || empty($phoneNumber) ||
empty($gender) || empty($qualification) || empty($yearOfAdmission) ||
empty($password) || empty($confirmPassword) ) {
            $errors[] = "All fields must be filled out";
        }

        if (!preg_match("/^\d{10}$/", $phoneNumber)) {
```

```
            $errors[] = "Phone number must be 10 digits without spaces or
dashes";
        }

        if ($password !== $confirmPassword) {
            $errors[] = "Password and Confirm Password do not match";
        }

        if (!empty($errors)) {
            echo "<div style='color: red; margin: 20px;'>";
            foreach ($errors as $error) {
                echo "<p>$error</p>";
            }
            echo "</div>";
        } else {
            echo "<div style='color: green; margin: 20px;'><p>Form submitted
successfully!</p></div>";
        }
    }
    ?>

    <script>
      function validateForm() {
        var fullName = document.getElementById('fullName').value;
        var email = document.getElementById('email').value;
        var phoneNumber = document.getElementById('phoneNumber').value;
        var gender = document.getElementById('gender').value;
        var qualification = document.getElementById('qualification').value;
        var yearOfAdmission = document.getElementById('yearOfAdmission').value;
        var password = document.getElementById('password').value;
        var confirmPassword = document.getElementById('confirmPassword').value;


        if (fullName === "" || email === "" || phoneNumber === "" || gender === ""
|| qualification === "" || yearOfAdmission === "" || password === "" ||
confirmPassword === "" ) {
          alert("All fields must be filled out");
          return false;
        }

        if (!/^\d{10}$/.test(phoneNumber)) {
          alert("Phone number must be 10 digits without spaces or dashes");
          return false;
        }
```

```
      if (password !== confirmPassword) {
        alert("Password and Confirm Password do not match");
        return false;
      }

      return true;
    }
  </script>

</body>

</html>
```

OUTPUT

MCA REGISTRATION FORM

Full Name*:

Meenakshy Prakash

Email*:

23

Phone Number*:

916789657

Gender*:

Female

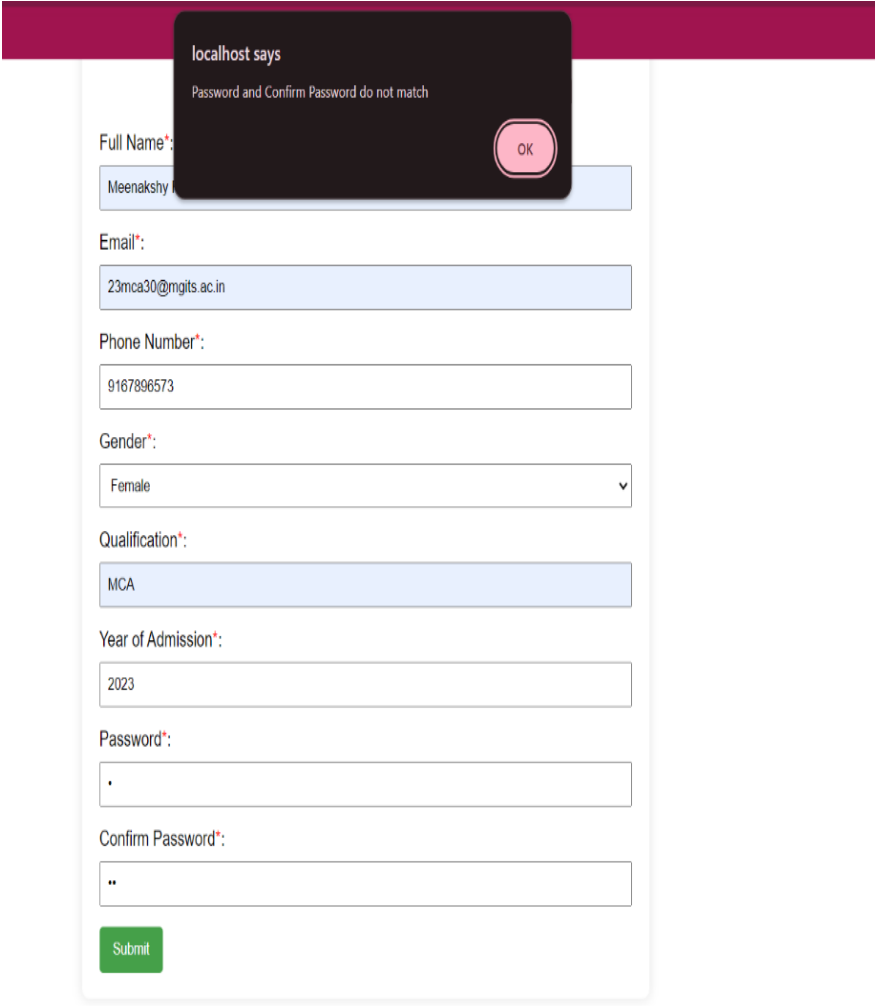Qualification*:

MCA

Year of Admission*:

2023

Password*:

•

Confirm Password*:

..

Submit

MCA REGISTRATION FORM

Full Name*:

Meenakshy Prakash

Email*:

23

⚠ Please include an '@' in the email address. '23' is missing an '@'.

Phone Num

916789657

Gender*:

Female

Qualification*:

MCA

Year of Admission*:

2023

Password*:

·

Confirm Password*:

··

Submit

MCA REGISTRATION FORM

Full Name*:

Meenakshy Prakash

Email*:

23mca30@mgits.ac.in

Phone Number*:

916789657

⚠ Please match the requested format.

Gender*:

Female

Qualification*:

MCA

Year of Admission*:

2023

Password*:

·

Confirm Password*:

··

Submit

Program # 16

16. Compose Electricity bill from user input based on a given tariff using PHP.

PROGRAM CODE

```
<!DOCTYPE html>
<head>
    <title>Electricity Bill</title>
  <style>
  body{
    font-family: Arial, sans-serif;
  }
  </style>
</head>
<?php
$total = $result =$cname =$cnum = $units= '';
if ($_SERVER["REQUEST_METHOD"] == "POST") {
$cname = test_input($_POST["cname"]);
$cnum = test_input($_POST["cnum"]);
$units = test_input($_POST["units"]);
}
function test_input($data) {
$data = trim($data);
$data = stripslashes($data);
$data = htmlspecialchars($data);
return $data;
}
if (isset($_POST['unit_submit'])) {
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $total = 'Amount to be paid : '. $result;
        $cname = 'Name : ' . $cname;
        $cnum = 'Consumer number : ' . $cnum;
        $units = 'Units Consumed : ' . $units;
    }
}
function calculate_bill($units) {
    $unit_cost_first = 3.50;
    $unit_cost_second = 4.50;
```

```php
    $unit_cost_third = 5.50;
    $unit_cost_fourth = 6.50;
    if($units <= 50) {
        $bill = $units * $unit_cost_first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $unit_cost_first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units * $unit_cost_second);
    }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 * $unit_cost_second);
        $remaining_units = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
        $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 *
$unit_cost_third);
        $remaining_units = $units - 250;
        $bill = $temp + ($remaining_units * $unit_cost_fourth);
    }
    return number_format((float)$bill, 2, '.', '');
}
?>
<body>
<form action="" method="post" id="quiz-form">
  <br><br><br>
    <div id="page-wrap">
    <table style="border-style:outset" cellspacing="1" cellpadding="10"
align="center" bgcolor="white" width="600">
      <tr><td colspan="2" align="center"></td><tr>
      <tr><td colspan="2" align="center"><h1>Calculate Electricity Bill</h1>
            <tr><td>Enter the consumer name :</td><td><input type="text"
name="cname" id="cname"/></td></tr>
                <tr><td>Enter the consumer number :</td><td><input type="number"
name="cnum" id="cnum"/></td></tr>
                  <tr><td>Enter the units consumed :</td><td><input
type="number" name="units" id="units"/></td></tr>
                <tr><td></td></tr>
                <tr><td colspan="2" align="center"><input type="submit"
name="unit_submit" id="unit_submit" value="Submit" /></td><td>
<div>
      <tr><td><?php echo $cname.'<br>'; ?></td></tr>
       <tr><td><?php echo $cnum.'<br>'; ?></td><tr>
      <tr><td><?php echo $units; ?></td></tr>
          <tr><td><?php echo $total; ?></td></tr>
```

```
        </div>
      </div>
    </table>
  </form>
</body>
</html>
```

<u>OUTPUT</u>

Lab Cycle 4

CO3: **Design front end web page and connect to the back-end databases.**

Program # 17

17. Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.

PROGRAM CODE

```html
<html>
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>
table {
    border-collapse: collapse;
            width: 50%;
            margin: 50px auto;
}
th, td {
border: 1px solid #ddd; padding: 8px;
text-align: center;
}
th {
background-color: #f2f2f2;
}
</style>
</head>
<body>
<h2 style="text-align: center;">Student Details</h2>
<?php


$conn = mysqli_connect("localhost","root","","collage");


if (!$conn) {
```

```php
    die("Connection failed: " . mysqli_connect_error());

}


echo "<br>";
$sql = "INSERT INTO student (rollno, name, age,cid)

VALUES ('5', 'Meenakshy Prakash', '22','105')";

if (mysqli_query($conn, $sql)) {


echo "<br>";

} else {

echo "Error: " . $sql . "<br>" . mysqli_error($conn);

}
$sql = "SELECT  rollno,name,age,cid FROM student";

$result = mysqli_query($conn, $sql);

if (mysqli_num_rows($result) > 0) {

    echo "<table border='1'>";
    echo "<tr><th>Roll No</th><th>Name</th><th>Age</th><th>Course ID</th></tr>";

while($row = mysqli_fetch_assoc($result)) {

        echo "<tr>";
        echo "<td>" . $row["rollno"] . "</td>";
        echo "<td>" . $row["name"] . "</td>";
        echo "<td>" . $row["age"] . "</td>";
        echo "<td>" . $row["cid"] . "</td>";
        echo "</tr>";
    }

    echo "</table>";
} else {
    echo '<p style="text.align:center,">No records found</p>';
}


mysqli_close($conn);
```

```
?>
```

OUTPUT

rollno	name	age	cid
1	Anu Anoop	24	101
2	Arun Anandhu	23	102
3	Varun Venu	25	101
4	Anju Prakash	23	104
5	Meenakshy Prakash	22	105

Student Details

Roll No	Name	Age	Course ID
1	Anu Anoop	24	101
2	Arun Anandhu	23	102
3	Varun Venu	25	101
4	Anju Prakash	23	104
5	Meenakshy Prakash	22	105

Lab Cycle 5

CO5: Develop Web Applications.

Program # 18

18. Develop an application in PHP and MySQL, to accept book details viz.Book id,title, authors, edition and publisher from an HTML form in a web page and savethe records in a database and to search for a book using the author name and display the search results

---

PROGRAM CODE

```html
<DOCTYPE! html>
<html>
<head>
<style>
#regform{
  border: 5px outset red;
  background-color:white;
  text-align: center;
  width: 600;
  height: 700;
  margin:auto;

}
table,tr,td,th{
  border: 1px solid black;
}
</style>
</head>
<body>

<div id="regform">
<h2> BOOKS</h2>
<form name="books"  action="books.php" method="post">

<br>BookID:<input type="text" name="BookID"/ > <br><br>
<br>Title:<input type="text" name="Title"/ ><br><br>
<br>Author<input type="text" name="Author" /> <br><br>
<br>Edition<input type="text" name="Edition" /><br><br>
<br>Publisher<input type="text" name="Publisher"/ > <br><br>
```

```html
  <input type="submit" name="submit" value="SUBMIT"><br><br>

 </form>


<h4> Books Information</h4>

<form name="searchForm"  action="books.php" method="post">
<br>Author name:<input type="text"  name="Author" >
<input type="submit" name="search" value="SEARCH"><br><br>

</form>
```

```php
<?php

$conn= mysqli_connect("localhost","root","","book");
if (!$conn) {
     die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully<br>";

if (isset($_POST['submit']))
{

  $BookID = $_POST['BookID'];
  $Title= $_POST['Title'];
  $Author = $_POST['Author'];
  $Edition = $_POST['Edition'];
  $Publisher = $_POST['Publisher'];
  echo " The values are: ".'<br>';
  echo "BookID:" .$BookID.'<br>';
  echo "Title:" .$Title.'<br>';
  echo "Author:" .$Author.'<br>';
  echo "Edition:" .$Edition.'<br>';
  echo "Publisher:" .$Publisher.'<br>';


  $sql="insert into bookinfo values('$BookID', '$Title', '$Author','$Edition',
'$Publisher')";
  if (mysqli_query($conn, $sql)) {
    echo "<br>New record created successfully";
  } else {
    echo "Error: " . $sql . "<br>" . mysqli_error($conn);
  }
}


if(isset($_POST['search']))
```

```php
{
    $Author = $_POST['Author'];

    $sql="select * from bookinfo where Author='$Author'";

    $res= mysqli_query($conn, $sql);
    $totRows = mysqli_num_rows($res);
    if($totRows==0)
    {
      echo "No records found!";
    }
     echo "<center><table><tr>";
    echo
"<th>BookID</th><th>Title</th><th>Author</th><th>Edition</th><th>Publisher</th>";
    echo "</tr><tr>";

    while($row = mysqli_fetch_assoc($res))
    {
       echo "<td>".$row["BookID"]."</td>";
       echo "<td>".$row["Title"]."</td>";
       echo "<td>".$row["Author"]."</td>";
       echo "<td>".$row["Edition"]."</td>";
       echo "<td>".$row["Publisher"]."</td>";
       echo "</tr>";
    }
    echo "</table></center>";
}
?>
</div>
</body>
</html>
```

OUTPUT

BOOKS

BookID: 104

Title: The story of my life

Author: Helen Keller

Edition: 1

Publisher: Doubleday

SUBMIT

Books Information

Author name: [ ] SEARCH

Connected successfully

BOOKS

BookID: [ ]

Title: [ ]

Author [ ]

Edition [ ]

Publisher [ ]

SUBMIT

Books Information

Author name: [ ] SEARCH

Connected successfully
The values are:
BookID:104
Title:The story of my life
Author:Helen Keller
Edition:1
Publisher:Doubleday

New record created successfully

BOOKS

BookID:

Title:

Author

Edition

Publisher

SUBMIT

Books Information

Author name: SEARCH

Connected successfully

BookID	Title	Author	Edition	Publisher
104	The story of my life	Helen Keller	1	Doubleday

BookID	Title	Author	Edition	Publisher
101	Steve Jobs	Walter Isaacson	1	Simon & Schuster
102	Aadujeevitham	Benyamin	1	DC books
103	Anne Frank	Anne Frank	2	Doubleday
104	The story of my life	Helen Keller	1	Doubleday