

Lab Cycle 3

CO3: Do Client-side & Server-side scripting

Program # 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.

PROGRAM CODE:

sort.php

```
<!DOCTYPE html>
<html>
<head>
  <title>ArraySort</title>
  <style>
    body{
      margin-top:90px;
      max-width: 620px;
      margin-left:420px;
      margin-height:340px;
      border-style: outset ;
    }
  </style>
</head>
<body><br>
  <center><h2>Sorting Arrays-PHP</h2></center><br>
<?php
$students = array("kharsam", "nila", "ayra", "amla");
echo "<b>Original indexed array: </b>";
print_r($students);
sort($students);
echo "<br><b>Sorted array (sort): </b>";
print_r($students);
rsort($students);
echo "<br><b>Sorted array (rsort): </b>";
print_r($students);
$age = array("kharsam"=>"21", "nila"=>"18", "ayra"=>"23", "amla"=>"22");
echo "<b><br><br>Original associated array: </b>";
print_r($age);
asort($age);
echo "<br><b>Sorted array (asort): </b>";
print_r($age);
arsort($age);
echo "<br><b>Sorted array (arsort): </b>";
print_r($age);
```

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

OUTPUT:

Sorting Arrays-PHP

Original indexed array: Array ([0] => kharsam [1] => nila [2] => ayra [3] => amla)

Sorted array (sort): Array ([0] => amla [1] => ayra [2] => kharsam [3] => nila)

Sorted array (rsort): Array ([0] => nila [1] => kharsam [2] => ayra [3] => amla)

Original associated array: Array ([kharsam] => 21 [nila] => 18 [ayra] => 23 [amla] => 22)

Sorted array (asort): Array ([nila] => 18 [kharsam] => 21 [amla] => 22 [ayra] => 23)

Sorted array (arsort): Array ([ayra] => 23 [amla] => 22 [kharsam] => 21 [nila] => 18)

Sorted array (ksort): Array ([amla] => 22 [ayra] => 23 [kharsam] => 21 [nila] => 18)

Sorted array (krsort): Array ([nila] => 18 [kharsam] => 21 [ayra] => 23 [amla] => 22)

Program#14

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

PROGRAM CODE:

crick.php

```
<!DOCTYPE html>
<head>
  <title>Indian Cricket Players</title>
  <style>
    table {
      border-collapse: collapse;
      width: 25%;
      margin: 50px;}
    th, td {
      border: 2px solid black;
      text-align: center;
      padding: 5px;}
    th {
      background-color: aliceblue;}
  </style>
</head>
<body>
<?php
$Indian_players = array("Virat Kohli","MS Dhoni","Rohit Sharma","shubhman gill","KL
Rahul","Jasprit Bumrah","Hardik Pandya");
echo "<table border='1'><tr><th>Indian players</tr>";
foreach ($Indian_players as $v) {
echo "<tr>";
echo "<td>$v</td>";
echo "</tr>";
}
echo "</tr></table>";
?>
  </tbody>
  <thead>
</table>
</body>
</html>
```

OUTPUT:

Indian players
Virat Kohli
MS Dhoni
Rohit Sharma
shubhman gill
KL Rahul
Jasprit Bumrah
Hardik Pandya

Program#15

Outline a registration form using PHP and do necessary validations.

PROGRAM CODE:

prgm3.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Registration Form</title>
<style>
#container{
width: 602px;
height: 550px;
margin: 8px auto;
padding: 5px;
border: 5px solid black;
}
input[type="text"],input[type="email"],input[type="password"]{
margin-right:5px;
width:98%;
height:40px;
padding:2px 0px 2px 4px;
background:#ecf0f1;
border:2px solid rgba(0,0,0,1);
color:black;
}
input[type="submit"]{
width:17%;
height:30px;
margin-top:14px;
border-radius:6px;
font:14px bold;
color:white;
background:blue;
text-transform:uppercase;
border:3px solid #000;
padding: 3px 10px;
}
input[type="submit"]:hover{
opacity:2;
cursor:pointer;
background-color: green;
}</style>
```

```

</head>
<body>
<div id="container">
  <h2><center><b>Registration Form</b></center></h2>
  <form action="registration.php" method="post">
    <b> <label for="username">Username:</label>
    <input type="text" id="username" name="username" required><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>
    <label for="pno">Phone Number:</label><br>
    <input type="text" id="pno" name="pno" pattern="[0-9]{10}" ><br><br>
    <label for="password">Password:</label>
    <input type="password" id="password" name="password" required><br><br>
    <label for="confirm_password">Confirm Password:</label>
    <input type="password" id="confirm_password" name="confirm_password" required >
    <br><br></b>
    <center><input type="submit" value="SUBMIT"><center> </form></div>
</body>
</html>

```

registration.php

```

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $username = clean_input($_POST["username"]);
  $email = clean_input($_POST["email"]);
  $pno= clean_input($_POST["pno"]);
  $password = clean_input($_POST["password"]);
  $confirm_password = clean_input($_POST["confirm_password"]);
  if (empty($username) || empty($email) || empty($password) || empty($pno)
  || empty($confirm_password)) {
    echo '<script>alert("All fields are required.")</script>';}
  elseif ($password !== $confirm_password) {
    echo '<script>alert("Passwords do not match.password must be at least 8 characters")
</script>';
  } else {
    echo '<script>alert("Registration successful!")</script>';}
}
function clean_input($data) {
  $data = trim($data);
  $data = stripslashes($data);
  $data = htmlspecialchars($data);
  return $data;
}
?>

```

OUTPUT:

Registration Form

Username:

Email:

Phone Number:

Password:

Confirm Password:

localhost says

Passwords do not match.password must be at least 8 characters

OK

Program#16

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

PROGRAM CODE:

electricity.php

```
<html>
<head>
<title>Electricity Bill Calculator</title>
<style>
body {
font-family: Arial, sans-serif; background-color: #f4f4f4; text-align: center;
margin: 0;
padding: 0;
}

.calculator-container { width: 30%; margin: 50px auto;
background-color: #fff; padding: 20px;
border-radius: 8px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h2 {
color: #333;
}

form {
margin-top: 20px;
}

label {
margin-bottom: 10px;
}

input {
width: 100%; padding: 10px; margin-bottom: 20px;
}

box-sizing: border-box;
}

button {
background-color: pink; color: white;
padding: 10px 15px; border: none;
border-radius: 4px; cursor: pointer;
}
```



```

button:hover {
background-color: #45a049;
}

p {
color: #333; margin-top: 20px;
}
</style>
</head>
<body>
<div class="calculator-container">
<h2>Electricity Bill Calculator</h2>
<form method="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);
?>">
<label for="units">Enter Units Consumed:</label>
<input type="number" name="units" required>
<br>
<button type="clickhere">Click here</button>
</form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
function test_input($data) {
$data = trim($data);
$data = stripslashes($data);
$data = htmlspecialchars($data); return $data;
}

$units = isset($_POST["units"]) ? test_input($_POST["units"]) : 0;

$unitRate1 = 5.00; // Rate for the first 100 units
$unitRate2 = 7.50; // Rate for units above 100

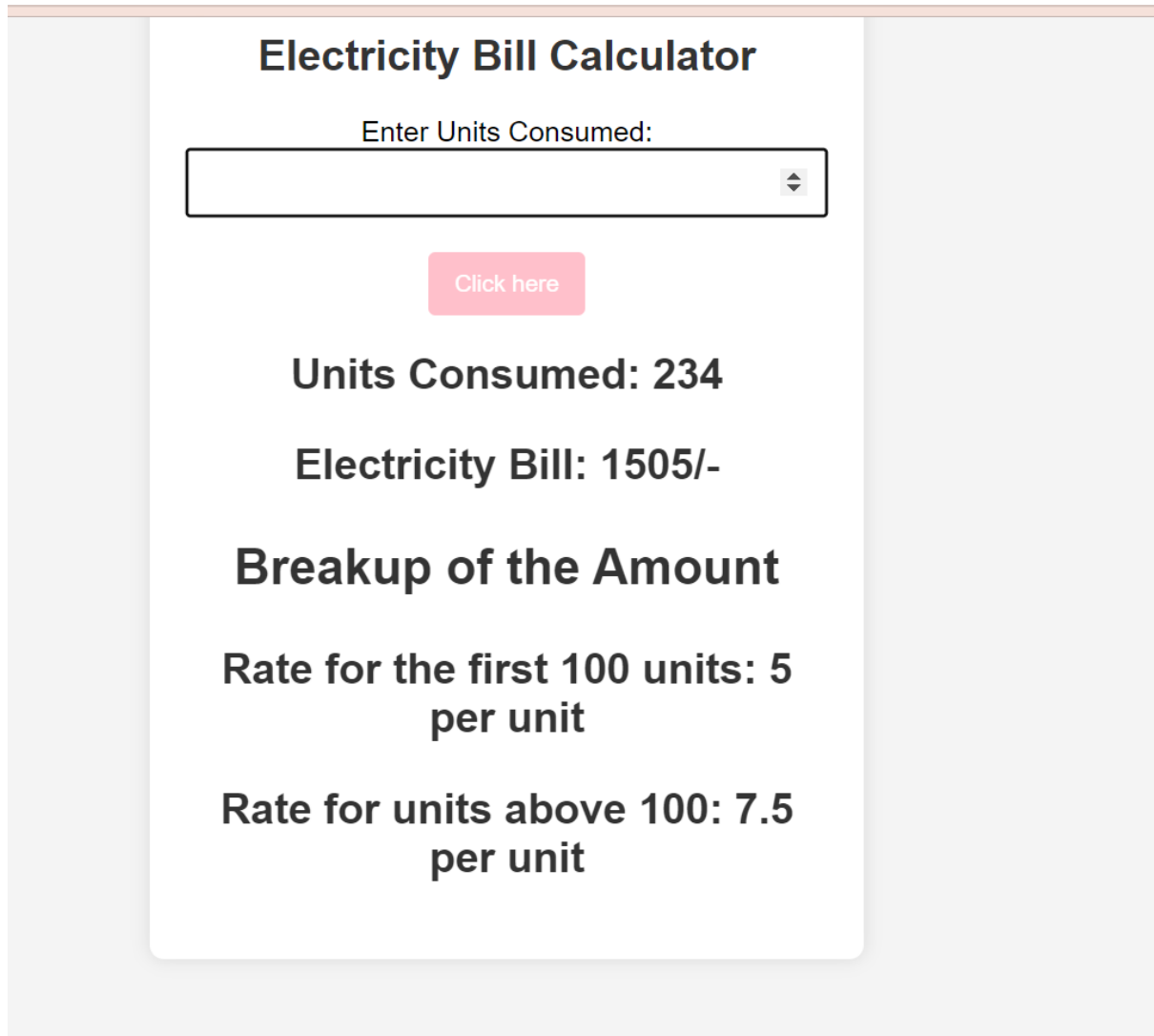
if ($units <= 100) {
$bill = $units * $unitRate1;
} else {

$bill = (100 * $unitRate1) + (($units - 100) * $unitRate2);
}
echo "<h2>";
echo "<p>Units Consumed: $units</p>"; echo "<p>Electricity Bill: $bill</p>"; echo "<div
class='breakup'>";
echo "<h3>Breakup of the Amount</h3>";
echo "<p>Rate for the first 100 units: $unitRate1 per unit</p>"; echo "<p>Rate for units
above 100: $unitRate2 per unit</p>"; echo "</div>";
}
?>
</div>
</body>

```

</html>

OUTPUT:



The screenshot displays a web application titled "Electricity Bill Calculator". It features a text input field labeled "Enter Units Consumed:" with a value of 234. Below the input field is a pink button labeled "Click here". The application then displays the calculated results: "Units Consumed: 234" and "Electricity Bill: 1505/-". A section titled "Breakup of the Amount" provides a detailed breakdown of the bill: "Rate for the first 100 units: 5 per unit" and "Rate for units above 100: 7.5 per unit". The entire interface is presented within a light gray container with a white central panel.

Electricity Bill Calculator

Enter Units Consumed:

234

Click here

Units Consumed: 234

Electricity Bill: 1505/-

Breakup of the Amount

Rate for the first 100 units: 5 per unit

Rate for units above 100: 7.5 per unit

Lab Cycle 4

CO4: Design front end web page and connect to the back-end databases.

Program # 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:

connection.php

```
<?php
// Connect to DB

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

$sql = "insert into student values ('900','Alana','BBA','101')";

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

    echo "<br>New record created successfully";

} else {

    echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
$sql = "select * from student";
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {

    // output data of each row
    echo "<table border='1'><tr><th>Roll
no</th><th>Name</th><th>Course</th><th>Dept_ID</th></tr>";

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

        echo "<tr><td> " . $row["Roll_No"]."</td>";
        echo "<td>" . $row["Name"]."</td>";
```

```

echo "<td>" . $row["Course"]."</td>";
echo "<td>".$row["Dept_ID"]."</td></tr>";
echo "<br>";
}
} else {
echo "No records found";
}
mysqli_close($conn);
?>

```

OUTPUT:

Connected successfully
New record created successfully

Roll no	Name	Course	Dept_ID
2	diyaa	mca	101
3	diyaa	mca	101
10	Hanna	MCA	101
11	Raifa	MCA	101
14	kamala	mca	101
22	diya	mca	101
33	kamala	mca	101
90	kamala	mca	101
900	Alana	BBA	101
1000	meera	BBA	101

Lab Cycle 5

CO5: Develop Web Applications

Program # 18

Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling mechanism.

PROGRAM CODE:

connection.php

```
<html>
<head>
<style >
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    margin: 0;
}

#container {
    max-width: 400px;
    margin: 20px auto;
    padding: 20px;
    background-color: #fff;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    border-radius: 5px;
}

form {
    text-align: left;
}

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

input {
    width: 100%;
    padding: 8px;
    margin-bottom: 12px;
    box-sizing: border-box;
```

```

}

button {
    background-color: #4caf50;
    color: #fff;
    padding: 10px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

button:hover {
    background-color: #45a049;
}

h1 {
    color: #333;
}

center {
    margin-bottom: 20px;
}
</style>
</head>
<body>
<center><h1>Library Managment</h1></center>
<div id="container">
<form method="post" action="">
<label for="t1">Enter the Book ID:</label>
    <input type="text" id="t1" name="t1"><br><br>
<label for="t2">Enter the Title:</label>
    <input type="text" id="t2" name="t2"><br><br>
<label for="t3">Enter the Name of Author:</label>
    <input type="text" id="t3" name="t3"><br><br>
<label for="t4">Enter the Book Edition:</label>
    <input type="text" id="t4" name="t4" ><br><br>
<label for="t5">Enter the Publisher:</label>
    <input type="text" id="t5" name="t5"><br><br>
    <button value="submit" name="submit">Submit</button><br>
<label for="t6">Enter the Author to Search :</label>
    <input type="text" id="t6" name="t6" ><br><br>
    <button value="submit" name="search">Submit</button>
</form>
</div>
</body>
</html>
<?php

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

```

```

$id=$_POST['t1'];
$title=$_POST['t2'];
$author=$_POST['t3'];
$edition=$_POST['t4'];
$publisher=$_POST['t5'];
$con=mysqli_connect("localhost","root","","college");
$sql_insert="insert into book values($id,$title,$author,$edition,$publisher)";
if(mysqli_query($con,$sql_insert))
{
    echo "New row is inserted";
}

mysqli_close($con);
}
if(isset($_POST['search'])){
    $aut=$_POST['t6'];
    $con=mysqli_connect("localhost","root","","college");
    $sql = "select * from book where author='$aut'";

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

if (mysqli_num_rows($result) > 0) {

// output data of each row
echo "<center><table
border='1'><tr><th>ID</th><th>Title</th><th>Author</th><th>Edition</th><th>Publish
er</th></tr>";

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

echo "<tr><td> " . $row["id"]."</td>";
echo "<td>" . $row["title"]."</td>";
echo "<td>". $row["author"]."</td>";
echo "<td>" . $row["edition"]."</td>";
echo "<td>" . $row["publisher"]."</td></tr>";
echo "<br>";
}
echo "</table></center>";
} else {

echo "No records found";

}

mysqli_close($con);
}
?>

```

OUTPUT:

Library Managment

Enter the Book ID:

25

Enter the Title:

harrypotter4

Enter the Name of Author:

jkrowling

Enter the Book Edition:

3

Enter the Publisher:

pegiom

Submit

Enter the Author to Search :

jkrowling

Submit

Enter the Book ID:

Enter the Title:

Enter the Name of Author:

Enter the Book Edition:

Enter the Publisher:

Submit

Enter the Author to Search :

jkrowling

Submit

ID	Title	Author	Edition	Publisher
25	harrypotter	jkrowling	3	pegiom

