

Bangalore Institute of Technology
Department of Computer Science and Engineering
Web Technology Laboratory (BCSL504)

Week 8

Lab program 8

8 a. Develop a PHP program (with HTML/CSS) to keep track of the number of visitors visiting the web page and to display this count of visitors, with relevant headings.

Note: PHP is server-side scripting language. Using XAMPP software these programs are executed. Create two files separately 1) index.php 2) count.txt inside xampp->htdocs save the index.php and count.txt files.

//index.php program

```
<?php
// File to store the visitor count
$count_file = 'count.txt';

// Check if the count file exists, if not create it and initialize the count
if (!file_exists($count_file)) {
    file_put_contents($count_file, 0);
}

// Read the current count
$count = (int)file_get_contents($count_file);

// Increment the count
$count++;

// Write the new count back to the file
file_put_contents($count_file, $count);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Visitor counter</title>
    <link rel="stylesheet" href="style.css">
</head>
```

```

<body>
  <div class="container">
    <h1>Welcome to Our Website!</h1>
    <h2>Visitor Count</h2>
    <p>Number of visitors: <strong><?php echo $count; ?></strong></p>
  </div>
</body>
</html>

```

b. Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.

- Create a database name called students
- Create a file name called **sort_students.php**, type code and save it.
- Copy **sort_students.php** file and open XAAMP directory
- There you'll find a folder named "htdocs".
- Inside the "htdocs" folder, paste **sort_students.php** file.
- After then open your XAAMP and start the Apache server.
- Open your favorite browser; we recommend using Google Chrome or Mozilla Firefox.
- Then, go to the URL "http://localhost/sort_students.php".

//sort_students.php program

```

<?php
$servername = "localhost";
$username = "root";
$password = " ";
$dbname = "students";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT * FROM students";
$result = $conn->query($sql);

$students = [];
if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        $students[] = $row;
    }
}

```

```

function selectionSort(&$arr, $key)
{
    $n = count($arr);
    for ($i = 0; $i < $n - 1; $i++) {
        $minIndex = $i;
        for ($j = $i + 1; $j < $n; $j++) {
            if ($arr[$j][$key] < $arr[$minIndex][$key]) {
                $minIndex = $j;
            }
        }

        $temp = $arr[$i];
        $arr[$i] = $arr[$minIndex];
        $arr[$minIndex] = $temp;
    }
}

```

```

selectionSort($students, 'name');
?>

```

```

<!DOCTYPE html>

```

```

<head>
<title>Sorted Student Records </title>
<style>
    body {
        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        background-color: #f0f2f5;
        color: #333;
        margin: 0;
        padding: 20px;
    }

    h2 {
        text-align: center;
        color: #4A90E2;
        margin-bottom: 20px;
    }

    table {
        width: 100%;
        border-collapse: collapse;
        background-color: #fff;
        border-radius: 10px;
        overflow: hidden;
    }

```

```
    box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
    margin: 0 auto;
}
```

```
th,
td {
    padding: 12px 15px;
    text-align: left;
    border-bottom: 1px solid #ddd;
}
```

```
th {
    background-color: #4A90E2;
    color: white;
    text-transform: uppercase;
    letter-spacing: 0.03em;
}
```

```
tr {
    transition: background-color 0.3s ease;
}
```

```
tr:hover {
    background-color: #f1f1f1;
}
```

```
td {
    font-size: 0.9em;
    color: #555;
}
```

```
@media (max-width: 768px) {
```

```
    table,
    th,
    td {
        display: block;
        width: 100%;
    }
```

```
    th,
    td {
        box-sizing: border-box;
    }
```

```
    tr {
```

```
        margin-bottom: 15px;
        display: block;
        box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
    }

    th {
        position: absolute;
        top: -9999px;
        left: -9999px;
    }

    td {
        border: none;
        position: relative;
        padding-left: 50%;
        text-align: right;
    }

    td:before {
        content: attr(data-label);
        position: absolute;
        left: 0;
        width: 50%;
        padding-left: 15px;
        font-weight: bold;
        text-align: left;
        text-transform: uppercase;
        color: #4A90E2;
    }
}
</style>
</head>
```

<body>

<h2>Sorted Student Records by Name</h2>

<table>

<thead>

<tr>

<th>ID</th>

<th>Name</th>

<th>USN</th>

<th>Branch</th>

<th>Email</th>

<th>Address</th>

```
</tr>
</thead>
<tbody>
  <?php foreach ($students as $student): ?>
    <tr>
      <td data-label="ID"><?php echo htmlspecialchars($student['id']); ?></td>
      <td data-label="Name"><?php echo htmlspecialchars($student['name']); ?></td>
      <td data-label="USN"><?php echo htmlspecialchars($student['usn']); ?></td>
      <td data-label="Branch"><?php echo htmlspecialchars($student['branch']);
?></td>
      <td data-label="Email"><?php echo htmlspecialchars($student['email']); ?></td>
      <td data-label="Address"><?php echo htmlspecialchars($student['address']);
?></td>
    </tr>
  <?php endforeach; ?>
</tbody>
</table>

</body>

</html>
```