

Assignment 9

Question 1

Write PHP code to demonstrate sorting in associative arrays and also use some numeric keys.

Code

```
<!DOCTYPE html>
<!-- associative array sort in ascending and descending order using numeric key -->
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

<body>

<?php
    $students = [ "Shiv"=> 50, "Ram"=>100, "Raj"=>40, "Aman"=> 60 ];
    echo "<h2>Values:</h2>";
    echo "<ul>";
    foreach ($students as $student => $rollno){
        echo "<li>$student $rollno</li>";
    }
    echo "</ul>";

    echo "<h2>Sorted by values:</h2>";
    echo "Ascending: <br>";
    asort($students);
    echo "<ul>";
    foreach ($students as $student => $rollno){
        echo "<li>$student $rollno</li>";
    }
    echo "</ul>";
    echo "Descending: ";
    arsort($students);
    echo "<ul>";
    foreach ($students as $student => $rollno){
        echo "<li>$student $rollno</li>";
    }
    echo "</ul>";

    $scores = [ "10" => 50, "1" => 100, "12" => 40, "16" => 60 ];
    echo "<h2>Numeric Keys:</h2>";
    echo "<ul>";
    foreach ($scores as $s => $ss){
        echo "<li>$s $ss</li>";
    }
    echo "</ul>";
    echo "<h2>Sorted by keys:</h2>";
```

```
    krsort($scores);  
    echo "<ul>";  
    foreach ($scores as $s => $ss){  
        echo "<li>$s  $ss</li>";  
    }  
    echo "</ul>";  
?>  
  
</body>  
  
</html>
```

Output

Values:

- Shiv 50
- Ram 100
- Raj 40
- Aman 60

Sorted by values:

Ascending:

- Raj 40
- Shiv 50
- Aman 60
- Ram 100

Descending:

- Ram 100
- Aman 60
- Shiv 50
- Raj 40

Numeric Keys:

- 10 50
- 1 100
- 12 40
- 16 60

Sorted by keys:

- 16 60
- 12 40
- 10 50
- 1 100

Question 2

Write PHP code read character by character from a file and write all the vowels into another file.

Code

```
<!DOCTYPE html>
<!-- read char by char from a file and write vowels to another file -->
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>fle io</title>
</head>

<body>
    <?php
    $myfile = fopen("input.txt", "r") or die("Unable to open file!");
    $out = fopen("output.txt", "w") or die("Unable to open file!");
    while (!feof($myfile)) {
        $ch = fgetc($myfile);
        if (
            $ch == 'a' || $ch == 'e' || $ch == 'i' || $ch == 'o' || $ch == 'u' ||
            $ch == 'A' || $ch == 'E' || $ch == 'I' || $ch == 'O' || $ch == 'U'
        ) {
            fwrite($out, $ch);
        }
    }
    fclose($out);
    fclose($myfile);
    ?>
</body>

</html>
```

Output

input.txt

hi i am a student of geu
computer science

output.txt

ii aaueoeuoueiee

Question 3

Write a PHP code to maintain session of a particular user in different pages. At the end if users want to logout then destroy the session.

Code

index.php

```
<?php session_start(); ?>
<!DOCTYPE html>
<!--
Program to maintain session of particular user in different pages.
At the end if user wants to logout, then destroy the session. -->
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

<body>
    <form action="login.php" method="POST">
        <label for="username">Username:</label>
        <input type="text" name="name" placeholder="Enter your name:"> <br>
        <label for="rollno">Roll No:</label>
        <input type="text" name="rollno" placeholder="Enter your roll no:"> <br>
        <input type="submit" value="Submit" name="submit">
    </form>
</body>

</html>
```

login.php

```
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

<body>
    <h1>Welcome to a new session!</h1>
    <form action="logout.php" method="POST">
        <input type="submit" value="Logout!">
    </form>
    <?php
    if (isset($_POST['submit'])) {
        $_SESSION["name"] = $_POST["name"];
        $_SESSION["rollno"] = $_POST["rollno"];
    }
```

```

?>
<p>
    <?php
        echo "Name:" . $_SESSION["name"];
        echo "<br>";
        echo "Roll No:" . $_SESSION["rollno"];
    ?>
</p>

<h2>Read Something? Here:</h2>
<ul>
    <li><a href="./article1.php">Article one</a></li>
    <li><a href="./article2.php">Article two</a></li>
</ul>
</body>

</html>

```

logout.php

```

<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

<body>
    <h1>Succesfully logged out!</h1>
    <?php session_destroy(); ?>
    <h3><a href="index.php">Login again!</a></h3>
</body>

</html>

```

article1.php

```

<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Artile 1</title>
</head>

<body>
    <form action="logout.php" method="POST">
        <input type="submit" value="Logout!">
    </form>
    <p>
        <?php

```

```

        echo "Name:" . $_SESSION["name"];
        echo "<br>";
        echo "Name:" . $_SESSION["rollno"];
    ?>
</p>
<p>
    Computer science is the study of computation, automation, and information.
    ↪ Computer science spans theoretical disciplines (such as algorithms, theory of
    ↪ computation, and information theory) to practical disciplines (including the
    ↪ design and implementation of hardware and software). Computer science is
    ↪ generally considered an area of academic research and distinct from computer
    ↪ programming.
</p>
</body>

</html>

```

article2.php

```

<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Artile 1</title>
</head>

<body>
    <form action="logout.php" method="POST">
        <input type="submit" value="Logout!">
    </form>
    <p>
        <?php
            echo "Name:" . $_SESSION["name"];
            echo "<br>";
            echo "Name:" . $_SESSION["rollno"];
        ?>
    </p>

    <p>
        The fundamental concern of computer science is determining what can and cannot
        ↪ be automated. The Turing Award is generally recognized as the highest distinction
        ↪ in computer science.
    </p>
</body>

</html>

```

Output

Welcome to a new session!

Logout!

Name:totoro

Roll No:21

Read Something? Here:

Username:

Roll No:

Submit

- [Article one](#)
- [Article two](#)

Logout!

Name:totoro

Name:21

Computer science is the study of computation, automation, and information. Computer science spans theoretical disciplines (such as algorithms, theory of computation, and information theory) to practical disciplines (including the design and implementation of hardware and software). Computer science is generally considered an area of academic research and distinct from computer programming.

Succesfully logged out!

[Login again!](#)

Question 4

Write PHP code to retrieve record from the database and print it in tabular form.

Consider following table:

Fields:	Name	Code	Designation	Salary
Data Type	varchar	int	varchar	int

Code

```
<!DOCTYPE html>
<!-- database table -->
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        table {
            border-collapse: collapse;
        }

        th, td {
            border: 1px solid;
            padding: 5px;
        }
    </style>
</head>

<body>
    <?php
    $servername = "localhost:3306";
    $username = "root";
    $password = "";
    $dbName = "web_dev";

    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbName);

    // Check connection
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }
    // echo "Connected successfully";

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

    if ($result->num_rows > 0) {
        echo "
        <table>
            <thead>
                <tr>
                    <th>Name</th>
                    <th>Code</th>
```

```

                <th>Designataion</th>
                <th>Salary</th>
            </tr>
        </thead>
";
// output data of each row
echo "<tbody>";
while ($row = $result->fetch_assoc()) {
    echo "
    <tr>
        <td>" . $row["Name"] . "</td>
        <td>" . $row["Code"] . "</td>
        <td>" . $row["Designation"] . "</td>
        <td>" . $row["Salary"] . "</td>
    </tr>";
}
echo "</tbody>";
echo "</table>";
} else {
    echo "No records found.";
}
?>
</body>

</html>

```

Output

Name	Code	Designataion	Salary
Shivnashu	00001	SDE1	100000
Himanshu	00002	SDE2	100000
Kanak	00003	Data Scientist	100000

Question 5

Write PHP code to create a form with following input, Name, Code, Designation and Salary. Submit the form data into and insert these values in the database.

Code

index.php

```
<!DOCTYPE html>
<!--
Create a html form with following input
Name, Code, Designation,Salary
Submit the data into the php program.
Program will accept all the values and insert it into database.
-->
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    .main {
      display: flex;
      align-items: center;
      justify-content: center;
    }

    label {
      width: 100px;
      display: inline-block;
    }
  </style>
</head>

<body>
  <h1> Enter details to insert in database </h1>
  <div class="main">
    <div>
      <form action="insert.php" methods="post">
        <label for="Name">Name: </label>
        <input type="text" name="name" pattern="[A-Za-z]*" title="First Name in
        ↳ alphabet only." required>
        <br>
        <label for="Code">Code: </label>
        <input type="text" name="code" pattern="\d{5}" title="Code in pattern XXXXX
        ↳ only digits" required>
        <br>
        <label for="Designation">Designation: </label>
        <input type="text" name="designation" pattern="[A-Za-z\s]*" title="Designation"
        ↳ required>
        <br>
        <label for="Salary">Salary: </label>
        <input type="text" name="salary" pattern="\d*" title="Salary only number
        ↳ accepted." required>
        <br>
```

```

        <br>
        <input type="submit" value="Submit">
    </form>
</div>
</div>
</body>

```

```

</html>

```

insert.php

```

<!DOCTYPE html>
<html>

<head>
    <title>Insert Page</title>
</head>

<body>
    <?php
        $servername = "localhost:3306";
        $username = "root";
        $password = "";
        $dbName = "web_dev";

        // Create connection
        $conn = new mysqli($servername, $username, $password, $dbName);

        // Check connection
        if ($conn === false) {
            die("ERROR: Could not connect. "
                . mysqli_connect_error());
        }

        // Taking all 5 values from the form data(input)
        $name = $_REQUEST['name'];
        $code = $_REQUEST['code'];
        $designation = $_REQUEST['designation'];
        $salary = $_REQUEST['salary'];

        // Performing insert query execution
        // here our table name is college
        $sql = "INSERT INTO employee VALUES ('$name', '$code', '$designation', '$salary')";

        if (mysqli_query($conn, $sql)) {
            echo "<h3>Data stored in a database successfully.</h3>";
            echo nl2br("\n$name\n $code\n $designation\n $salary");
        } else {
            echo "ERROR: Sorry $sql. " . mysqli_error($conn);
        }

        // Close connection
        mysqli_close($conn);
    ?>
</body>

</html>

```

Output

Enter details to insert in database

Name:

Code:

Designation:

Salary:













ravi
00007
Manger
500000

Submit

Data stored in a database successfully.

ravi
00007
Manger
500000

+ Options

				Name	Code	Designation	Salary
<input type="checkbox"/>		Edit		Copy		Delete	Shivnashu 00001 SDE1 500000
<input type="checkbox"/>		Edit		Copy		Delete	Himanshu 00002 SDE2 100000
<input type="checkbox"/>		Edit		Copy		Delete	ravi 00007 Manger 500000
<input type="checkbox"/>		Edit		Copy		Delete	Shanyam 00021 Manager 10000

Question 6

Write PHP code to update salary of an employer according to employee's code.

Code

insert.php

```
<!DOCTYPE html>
<!-- update slary of employee according to his code -->
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Update Salary</title>
  <style>
    #main {
      display: flex;
      justify-content: center;
      flex-direction: column;
      align-items: center;
    }

    label {
      display: inline-block;
      width: 150px;
    }
  </style>
</head>

<body>
  <div id="main">
    <div>
      <h1>Update Salary</h1>
    </div>
    <div>
      <form action="update.php" method="post">
        <label for="code">Employee Code: </label>
        <input type="text" pattern="\d{5}" name="code" required title="Enter employee
→ code of 5 digit">
        <br>
        <label for="salary">New Salary: </label>
        <input type="text" pattern="\d*" name="salary" required title="Enter the new
→ updated salary.">
        <br>
        <br>
        <input type="submit" value="Update">
      </form>
    </div>
  </div>
</body>

</html>
```

update.php

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

```
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <?php
    $servername = "localhost:3306";
    $username = "root";
    $password = "";
    $dbName = "web_dev";

    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbName);

    // Check connection
    if ($conn === false) {
        die("ERROR: Could not connect. "
            . mysqli_connect_error());
    }

    $code = $_REQUEST['code'];
    $salary = $_REQUEST['salary'];

    // Performing insert query execution
    // here our table name is college
    $sql = "UPDATE employee SET salary='$salary' WHERE code='$code'";

    if (mysqli_query($conn, $sql)) {
        echo "<h3>Data updated in a database successfully.</h3>";
    } else {
        echo "ERROR: Sorry $sql. " . mysqli_error($conn);
    }
    // Close connection
    mysqli_close($conn);
  ?>
</body>

</html>
```

Output

Update Salary

Employee Code:

00001













New Salary:

100000

Update

Data updated in a database successfully.

+ Options

				Name	Code	Designation	Salary			
<input type="checkbox"/>		Edit		Copy		Delete	Shivnashu	00001	SDE1	100000
<input type="checkbox"/>		Edit		Copy		Delete	Himanshu	00002	SDE2	100000
<input type="checkbox"/>		Edit		Copy		Delete	ravi	00007	Manger	500000
<input type="checkbox"/>		Edit		Copy		Delete	Shanyam	00021	Manager	10000

Question 7

Write PHP code to delete particular employer record according to his employees code.

Code

index.php

```
<!DOCTYPE html>
<!-- delete particular employee according to his employee code -->
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Update Salary</title>
  <style>
    #main {
      display: flex;
      justify-content: center;
      flex-direction: column;
      align-items: center;
    }

    label {
      display: inline-block;
      width: 150px;
    }
  </style>
</head>

<body>
  <div id="main">
    <div>
      <h1>Remove Employee</h1>
    </div>
    <div>
      <form action="delete.php" method="post">
        <label for="code">Employee Code: </label>
        <input type="text" pattern="\d{5}" name="code" required title="Enter employee
        ↪ code of 5 digit">
        <br>
        <br>
        <input type="submit" value="Update">
      </form>
    </div>
  </div>
</body>

</html>
```

delte.php

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>

<body>
  <?php
    $servername = "localhost:3306";
    $username = "root";
    $password = "";
    $dbName = "web_dev";

    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbName);

    // Check connection
    if ($conn === false) {
        die("ERROR: Could not connect. "
            . mysqli_connect_error());
    }

    $code = $_REQUEST['code'];

    // Performing insert query execution
    // here our table name is college
    $sql = "DELETE FROM employee WHERE code='$code'";

    if (mysqli_query($conn, $sql)) {
        echo "<h3>Employee removed in database successfully.</h3>";
    } else {
        echo "ERROR: Sorry $sql. " . mysqli_error($conn);
    }
    // Close connection
    mysqli_close($conn);
  ?>
</body>

</html>
```

Output

Remove Employee

Employee Code:

Update

Employee removed in database successfully.

+ Options

				Name	Code	Designation	Salary			
<input type="checkbox"/>		Edit		Copy		Delete	Shivnashu	00001	SDE1	100000
<input type="checkbox"/>		Edit		Copy		Delete	Himanshu	00002	SDE2	100000
<input type="checkbox"/>		Edit		Copy		Delete	ravi	00007	Manger	500000
	<input type="checkbox"/>	Check all	With selected:			Edit		Copy		Delete