

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

iiiaueoeuoueiee

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

```
<!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>
    <?php session_start(); ?>
    <p>
        <?php
            echo "Name:" . $_SESSION["name"];
            echo "<br>";
            echo "Name:" . $_SESSION["rollno"];
            ?>
        </p>
        <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

```
<!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>
</body>
```

```

</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

```

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

</html>

```

article1.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>Artile 1</title>
</head>

<body>

```

```

<?php session_start(); ?>
<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

```

<!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>Article 1</title>
</head>

<body>
    <?php session_start(); ?>
    <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>

```