Name: Sciddhanto Sinha

Roll no: 2213111

Batch: A

Experiment No:9

9. Create the database table with the entries mentioned:

[rollNo, studName, studDept, passingYear, classGrades] Grades should be either {First Class, Second Class, Pass}Design the UI as given below and show the appropriate result through PHP script

Objective: To learn about concept and implementation of JAVASCRIPT

Theory:

PHP stands for Hypertext Preprocessor. PHP is a very popular and widely-used open source server-side scripting language to write dynamically generated web pages. PHP was originally created by Rasmus Lerdorf in 1994. It was initially known as Personal Home Page.PHP scripts are executed on the server and the result is sent to the web browser as plain HTML. PHP can be integrated with the number of popular databases, including MySQL, PostgreSQL, Oracle, Microsoft SQL Server, Sybase, and so on

Data Types in PHP

The values assigned to a PHP variable may be of different data types including simple string and numeric types to more complex data types like arrays and objects.

PHP supports total eight primitive data types: Integer, Floating point number or Float, String, Booleans, Array, Object, resource and NULL. These data types are used to construct variables. Now let's discuss each one of them in detail.

What is PHP Arrays

Arrays are complex variables that allow us to store more than one value

or a group of values under a single variable name.

Types of Arrays in PHP

There are three types of arrays that you can create. These are:

- **Indexed array/ Numeric array** — An array with a numeric key.
- **Associative array** — An array where each key has its own specific value.
- **Multidimensional array** — An array containing one or more arrays within itself.

PHP Database connection

Requirements: XAMPP web server procedure:

Start XAMPP server by starting

Apache and MySQL. Write PHP script

for connecting to XAMPP.

Run it in the local browser.

Database is successfully created which is based on the PHP code.

In PHP, we can connect to the database using XAMPP web server by using the following path. "localhost/phpmyadmin".

Conclusion: Thus the code has been successfully completed.

Code:

DataIn.php –

```php
<?php
$conn = mysqli_connect('localhost', 'root', '', 'mitsoe');
if (!$conn)
{
 die("Connection failed: " . mysqli_connect_error());
```

```php
}
if ($_SERVER["REQUEST_METHOD"]== "POST")
{

 $rollNo= $_POST["rollNo"];
 $studName= $_POST["studName"];
 $studDept= $_POST["studDept"];
 $passYear= $_POST["passYear"];
 $classGrade= $_POST["classGrade"];

 $sql = "INSERT INTO students(rollNo,studName,studDept,passYear,classGrade)
 VALUES ('$rollNo','$studName','$studDept','$passYear','$classGrade')";
 if (mysqli_query($conn, $sql))
 {
 echo "Item added successfully Kindly Refresh Database Page";
 }
 else
 {
 echo "Error adding item: Check Your Connection" . mysqli_error($conn);
 }
}
?>

<html>
<head>
 <title>Shopping Cart</title>
 <style>
 body
 {
 background-color: #f2f2f2;
 font-family: Arial, sans-serif;
 }
 h2
 {
 color: #333333;
 }
 form
 {
 background-color: #ffffff;
 padding: 20px;
 margin-bottom: 20px;
 border-radius: 5px;
 }
 table
 {
 border-collapse: collapse;
 margin-bottom: 20px;
 }
 th,
 td {
 padding: 8px;
 border: 1px solid #dddddd;
```

```css
  text-align: left;
  }
  th {
  background-color: #4CAF50;
  color: #ffffff;
  }
  tr:nth-child(even) {
  background-color: #f2f2f2;
  }
  input[type="text"],
  input[type="number"] {
  padding: 8px;
  border-radius: 5px;
  border: 1px solid #cccccc;
  width: 100%;
  }
  input[type="submit"] {
  background-color: #4CAF50;
  color: #ffffff;
  border-radius: 5px;
  border: none;
  padding: 8px 16px;
  margin-top: 10px;
  cursor: pointer;
  }
  input[type="submit"]:hover {
  background-color: #3e8e41;
  }
</style>
</head>
<body>
  <h2>Insert Data in Students Information Table</h2>
  <form method="post">
  <label for="rollNo">Roll No:</label>
  <input type="text" name="rollNo" id="rollNo">
  <label for="studName">Student Name:</label>
  <input type="text" name="studName" id="studName">
  <label for="studDept">Student Department:</label>
  <input type="text" name="studDept" id="studDept">
  <label for="passYear">Passing Year:</label>
  <input type="text" name="passYear" id="passYear">
  <label for="classGrade">Passing Grade:</label>
  <input type="text" name="classGrade" id="classGrade">
  <input type="submit" value="Add Record">
  </form>
  <table>
  <thead>
  <tr>
  <th>Roll No</th>
  <th>Student Name</th>
  <th>Department</th>
  <th>Passing Year</th>
```

```php
<th>Passing Grade</th>
</tr>
</thead>
<tbody>
<?php
$sql = "SELECT * FROM students";
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {
while ($row = mysqli_fetch_assoc($result))
{
echo "<tr>";
echo "<td>" . $row["rollNo"] . "</td>";
echo "<td>" . $row["studName"] . "</td>";
echo "<td>" . $row["studDept"] . "</td>";
echo "<td>" . $row["passYear"] . "</td>";
echo "<td>" . $row["classGrade"] . "</td>";
echo "</tr>";
}
}
?>
</tbody>
</table>
<?php
$sql = "SELECT COUNT(*) as totalCount FROM students";
$result = mysqli_query($conn, $sql);
$row = mysqli_fetch_assoc($result);
echo "<p>Total Records in Table: " . $row["totalCount"] . "</p>";
?>
</body>
</html>
<?php
mysqli_close($conn);
?>


<html>
<head>
<title>Search Result</title>
</head>
<body>
<form action ="display.php" method="POST">
<label for="year">Enter Year:</label>
<input type="number" name="year" id="year" required><br><br>
<label>Class Grades:</label><br>
<input type="radio" name="grades" value="First Class" id="firstClass">
<label for="firstClass">First Class</label><br>
<input type="radio" name="grades" value="Second Class"  id="secondClass">
<label for="secondClass">Second Class</label><br>
<input type="radio" name="grades" value="Pass" id="pass">
<label for="pass">Pass</label><br>
<input type="radio" name="grades" value="Fail" id="fail">
<label for="fail">Fail</label><br><br>
```
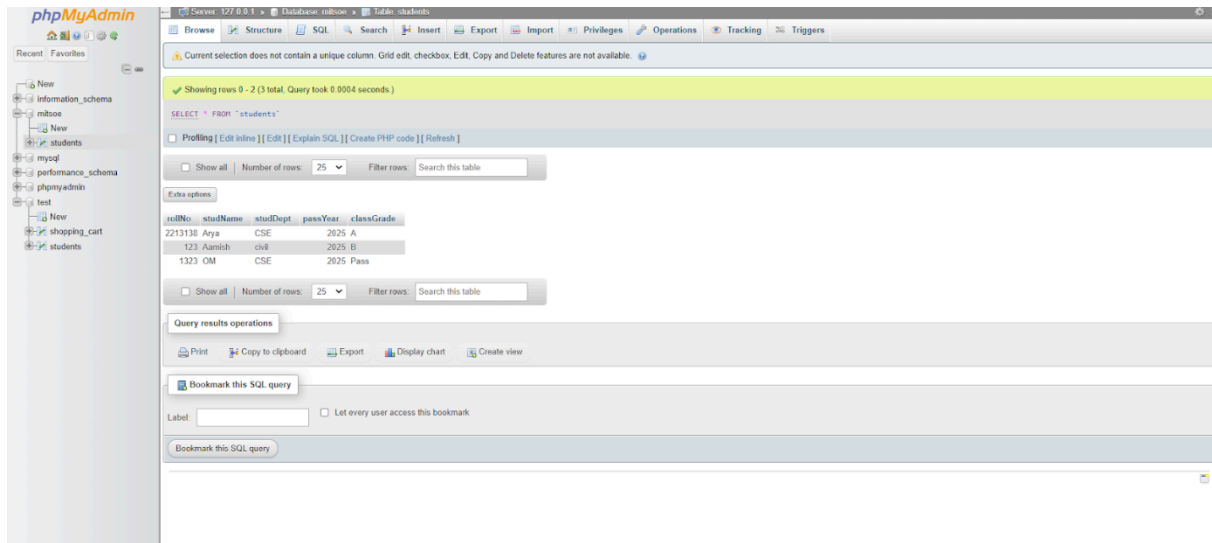
```html
<input type="submit" name="submit" value="Submit">
</form>
</body>
</html>
```

Display.php-

```php
<?php
$conn = mysqli_connect('localhost', 'root', '', 'mitsoe');
if(isset($_POST['submit']))
{
$year = $_REQUEST['year'];
$grades = $_REQUEST['grades'];
$sql = 'SELECT * FROM students WHERE passYear=? AND classGrade=?';
$stmt = mysqli_prepare($conn, $sql);
mysqli_stmt_bind_param($stmt, 'is', $year, $grades);
mysqli_stmt_execute($stmt);
$result = mysqli_stmt_get_result($stmt);
if (mysqli_num_rows($result) > 0)
{
while ($row = mysqli_fetch_assoc($result))
{
echo '<p>Roll No: ' . $row['rollNo'] . '</p>';
echo '<p>Name: ' . $row['studName'] . '</p>';
echo '<p>Department: ' . $row['studDept'] . '</p>';
echo '<p>Passing Year: ' . $row['passYear'] . '</p>';
echo '<p>Class Grades: ' . $row['classGrade'] . '</p>';
echo '<hr>';
}
}
else
{
echo 'No records found';
}
mysqli_close($conn);
}
?>
```

1)Screenshot of phpMyAdmin:-

Item added successfully Kindly Refresh Database Page

Insert Data in Students Information Table

Roll No:

Student Name:

Student Department:

Passing Year:

Passing Grade:

Add Record

Roll No	Student Name	Department	Passing Year	Passing Grade
2213138	Arya	CSE	2025	A
123	Aamish	civil	2025	B
1323	OM	CSE	2025	Pass

Total Records in Table: 3

Enter Year:
2025

Class Grades:
○ First Class
○ Second Class
● Pass
○ Fail

Submit

Roll No: 1323

Name: OM

Department: CSE

Passing Year: 2025

Class Grades: Pass