Practical – 7

Aim: Perform following programs of PHP with database.

Exercise:

1. **How do you create a connection between PHP and MySQL explain its step by step procedure?**
   1. **Install PHP and MySQL:**
      Ensure that PHP and MySQL are installed on your system. You can download and install PHP from the official PHP website (https://www.php.net/downloads.php), and MySQL from the official MySQL website (https://www.mysql.com/downloads/).
   2. **Start MySQL Server:**
      Make sure that the MySQL server is running. You can start the MySQL server using the appropriate command for your operating system.
   3. **Create a MySQL Database:**
      Use a MySQL client (such as phpMyAdmin or MySQL Command Line) to create a database that PHP will connect to. You can create a database using SQL commands like CREATE DATABASE dbname;.
   4. **Create a MySQL User (Optional):**
      It's a good practice to create a separate MySQL user with limited privileges for accessing the database from PHP. You can create a user using SQL commands like CREATE USER 'username'@'localhost' IDENTIFIED BY 'password'; and grant necessary privileges using GRANT statements.
   5. **Write PHP Code to Connect to MySQL:**
      Now, you need to write PHP code to establish a connection to the MySQL database. Here's an example of how to do it:

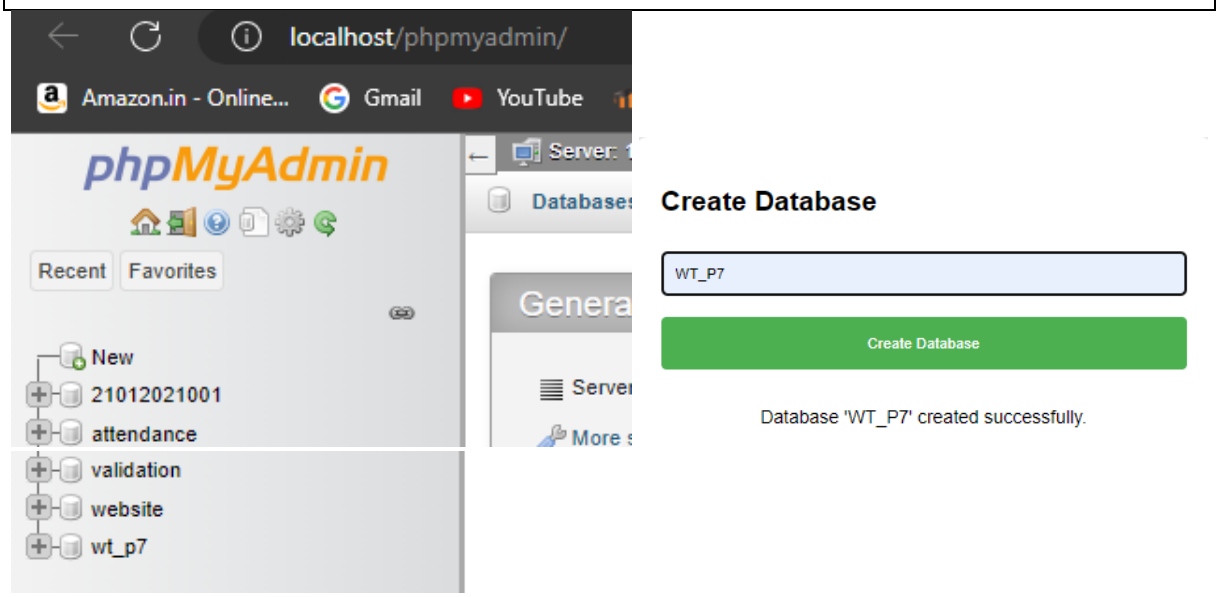
```php
<?php
$servername = "localhost"; // Change this if MySQL server is running on a different host
$username = "username"; // Your MySQL username
$password = "password"; // Your MySQL password
$database = "dbname"; // Your MySQL database name
$conn = new mysqli($servername, $username, $password, $database);
if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
} else {
   echo "Connected successfully";
}
// Perform database operations here...
// Close connection
$conn->close();
?>
```

2. Write a PHP Program to create database at run time by passing database name in text box.

```
<!DOCTYPE html>
<html>
<head>
   <title>Create Database</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         background-color: #f0f0f0;
         margin: 0;
         padding: 20px;
      }
      #container {
         background-color: #fff;
         padding: 20px;
         border-radius: 10px;
         box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
         width: 400px;
         margin: 0 auto;
      }
      input[type="text"] {
         width: 100%;
         padding: 10px;
         margin: 8px 0;
         box-sizing: border-box;
         border: 1px solid #ccc;
         border-radius: 4px;
      }
      input[type="submit"] {
         background-color: #4CAF50;
         color: white;
         padding: 14px 20px;
         margin: 8px 0;
         border: none;
         border-radius: 4px;
         cursor: pointer;
         width: 100%;
      }
      input[type="submit"]:hover {
         background-color: #45a049;
```

```
        }
        .message {
            margin-top: 20px;
            text-align: center;
        }
    </style>
</head>
<body>
    <div id="container">
        <h2>Create Database</h2>
        <form method="post">
            <input type="text" name="database_name" placeholder="Enter database name"
required><br>
            <input type="submit" name="submit" value="Create Database">
        </form>

        <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            // Retrieve database name from form submission
            $database_name = $_POST['database_name'];

            // Connect to MySQL server
            $servername = "localhost"; // Change this if MySQL server is running on a different
host
            $username = "root"; // Your MySQL username
            $password = ""; // Your MySQL password

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

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

            // Create the database
            $sql = "CREATE DATABASE $database_name";
            if ($conn->query($sql) === TRUE) {
                echo "<div class='message'>Database '$database_name' created
successfully.</div>";
            } else {
                echo "<div class='message'>Error creating database: " . $conn->error . "</div>";
            }
```

```
        // Close connection
        $conn->close();
    }
    ?>
  </div>
</body>
</html>
```



3. Write a PHP Program to create Customer table at run time with C_Id, C_name, Name_Item_purchased and review_product fields.

```
<!DOCTYPE html>
<html>
<head>
  <title>Create Customer Table</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 20px;
    }
    #container {
      background-color: #fff;
      padding: 20px;
      border-radius: 10px;
      box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
```

```
            width: 400px;
            margin: 0 auto;
        }
        .message {
            margin-top: 20px;
            text-align: center;
        }
    </style>
</head>
<body>
    <div id="container">
        <h2>Create Customer Table</h2>

        <?php
        // Connect to MySQL server
        $servername = "localhost"; // Change this if MySQL server is running on a different
host
        $username = "root"; // Your MySQL username
        $password = ""; // Your MySQL password
        $database = "WT_P7"; // Your MySQL database name

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

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

        // SQL query to create customer table
        $sql = "CREATE TABLE Customer (
            C_Id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
            C_name VARCHAR(50) NOT NULL,
            Name_Item_purchased VARCHAR(100) NOT NULL,
            review_product TEXT
        )";

        if ($conn->query($sql) === TRUE) {
            echo "<div class='message'>Customer table created successfully.</div>";
        } else {
            echo "<div class='message'>Error creating customer table: " . $conn->error .
"</div>";
        }
```

```
        // Close connection
        $conn->close();
        ?>
    </div>
</body>
</html>
```

Create Customer Table

Customer table created successfully.

Create Customer Table

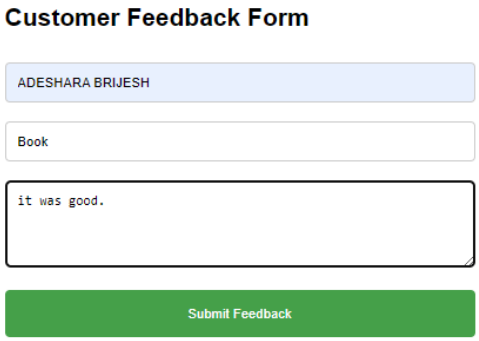
Error creating customer table: Table 'customer' already exists

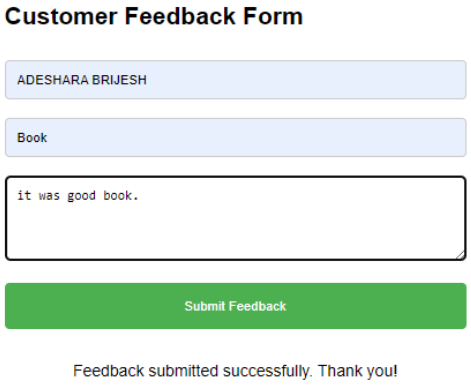
4. Write a PHP program to create 'customer feedback form' and store data into Customer table.

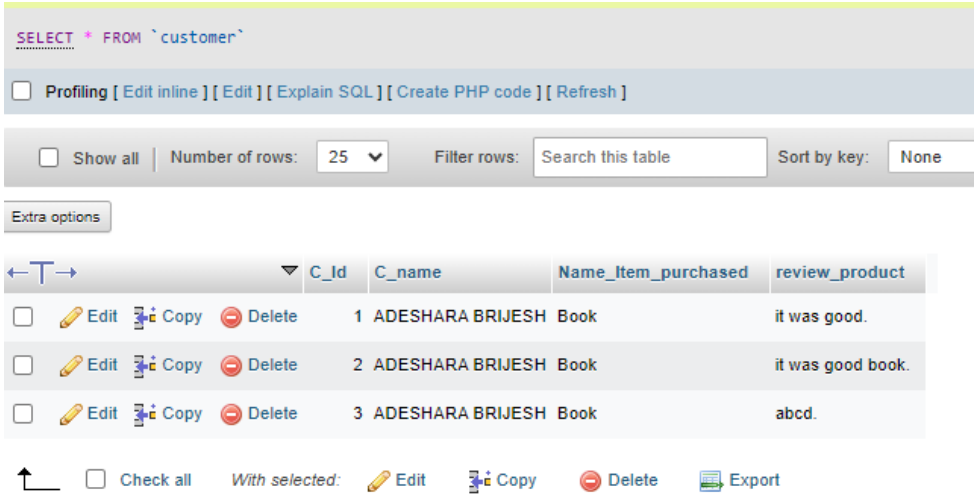
```
<!DOCTYPE html>
<html>
<head>
    <title>Customer Feedback Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f0f0f0;
            margin: 0;
            padding: 20px;
        }
        #container {
            background-color: #fff;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
            width: 400px;
            margin: 0 auto;
        }
        input[type="text"], textarea {
            width: 100%;
            padding: 10px;
            margin: 8px 0;
            box-sizing: border-box;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
```

```
        input[type="submit"] {
            background-color: #4CAF50;
            color: white;
            padding: 14px 20px;
            margin: 8px 0;
            border: none;
            border-radius: 4px;
            cursor: pointer;
            width: 100%;
        }
        input[type="submit"]:hover {
            background-color: #45a049;
        }
        .message {
            margin-top: 20px;
            text-align: center;
        }
    </style>
</head>
<body>
    <div id="container">
        <h2>Customer Feedback Form</h2>
        <form method="post">
            <input type="text" name="customer_name" placeholder="Your Name"
required><br>
            <input type="text" name="item_purchased" placeholder="Item Purchased"
required><br>
            <textarea name="feedback" placeholder="Your Feedback" rows="4"
required></textarea><br>
            <input type="submit" name="submit" value="Submit Feedback">
        </form>

        <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            // Retrieve form data
            $customer_name = $_POST['customer_name'];
            $item_purchased = $_POST['item_purchased'];
            $feedback = $_POST['feedback'];

            // Connect to MySQL server
            $servername = "localhost"; // Change this if MySQL server is running on a different
host
```

```
        $username = "root"; // Your MySQL username
        $password = ""; // Your MySQL password
        $database = "WT_P7"; // Your MySQL database name

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

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

        // SQL query to insert feedback into Customer table
        $sql = "INSERT INTO Customer (C_name, Name_Item_purchased, review_product)
                VALUES ('$customer_name', '$item_purchased', '$feedback')";

        if ($conn->query($sql) === TRUE) {
            echo "<div class='message'>Feedback submitted successfully. Thank you!</div>";
        } else {
            echo "<div class='message'>Error submitting feedback: " . $conn->error .
"</div>";
        }

        // Close connection
        $conn->close();
    }
    ?>
  </div>
</body>
</html>
```





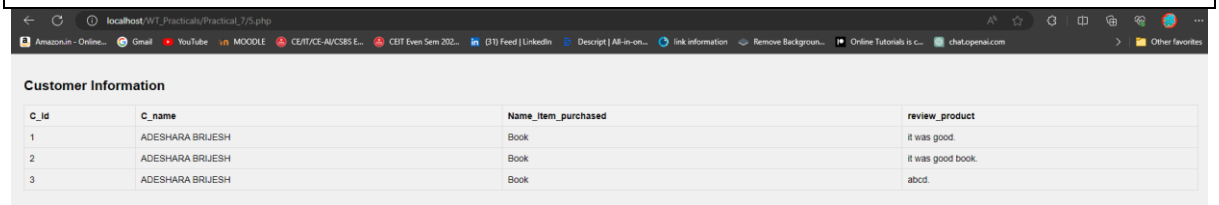


5. Write a PHP program to display information of Customer table withwell formatting (table form) on output screen.

```
<!DOCTYPE html>
<html>
<head>
   <title>Customer Information</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         background-color: #f0f0f0;
         margin: 0;
         padding: 20px;
      }
      table {
         width: 100%;
         border-collapse: collapse;
         margin-bottom: 20px;
      }
      th, td {
         border: 1px solid #ddd;
         padding: 8px;
         text-align: left;
      }
      th {
         background-color: #f2f2f2;
      }
   </style>
</head>
```

```
<body>
    <h2>Customer Information</h2>

    <?php
    // Connect to MySQL server
    $servername = "localhost"; // Change this if MySQL server is running on a different host
    $username = "root"; // Your MySQL username
    $password = ""; // Your MySQL password
    $database = "WT_P7"; // Your MySQL database name

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

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

    // SQL query to retrieve data from Customer table
    $sql = "SELECT * FROM Customer";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        // Output data in table format
        echo "<table>";
        echo
"<tr><th>C_Id</th><th>C_name</th><th>Name_Item_purchased</th><th>review_product
</th></tr>";
        while($row = $result->fetch_assoc()) {
            echo "<tr>";
            echo "<td>" . $row["C_Id"] . "</td>";
            echo "<td>" . $row["C_name"] . "</td>";
            echo "<td>" . $row["Name_Item_purchased"] . "</td>";
            echo "<td>" . $row["review_product"] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
    } else {
        echo "No data found.";
    }

    // Close connection
    $conn->close();
```

```
    ?>
</body>
</html>
```

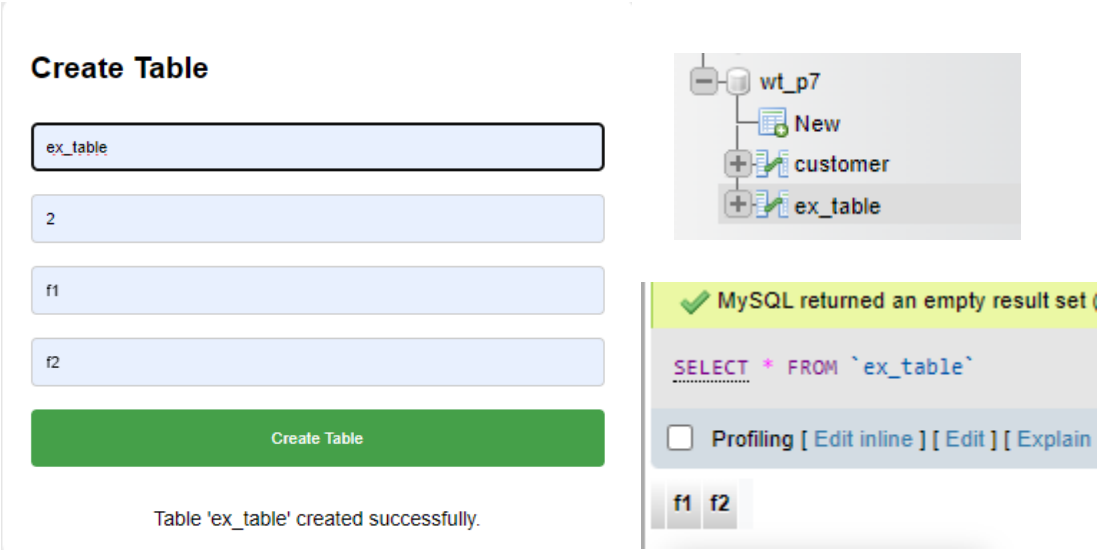


C_id	C_name	Name_Item_purchased	review_product
1	ADESHARA BRIJESH	Book	it was good.
2	ADESHARA BRIJESH	Book	it was good book.
3	ADESHARA BRIJESH	Book	abcd.

6. Write a PHP Program to create table at run time by passing table name and no. of fields through text boxes same as PHPMYADMIN interface.

```
<!DOCTYPE html>
<html>
<head>
    <title>Create Table</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f0f0f0;
            margin: 0;
            padding: 20px;
        }
        #container {
            background-color: #fff;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
            width: 400px;
            margin: 0 auto;
        }
        input[type="text"] {
            width: 100%;
            padding: 10px;
            margin: 8px 0;
            box-sizing: border-box;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
        input[type="number"] {
            width: 100%;
            padding: 10px;
```

```
            margin: 8px 0;
            box-sizing: border-box;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
        input[type="submit"] {
            background-color: #4CAF50;
            color: white;
            padding: 14px 20px;
            margin: 8px 0;
            border: none;
            border-radius: 4px;
            cursor: pointer;
            width: 100%;
        }
        input[type="submit"]:hover {
            background-color: #45a049;
        }
        .message {
            margin-top: 20px;
            text-align: center;
        }
    </style>
</head>
<body>
    <div id="container">
        <h2>Create Table</h2>
        <form method="post">
            <input type="text" name="table_name" placeholder="Enter table name"
required><br>
            <input type="number" name="num_fields" placeholder="Number of fields" min="1"
required><br>
            <?php
            // Display input fields for field names
            if ($_SERVER["REQUEST_METHOD"] == "POST") {
                $num_fields = $_POST['num_fields'];
                for ($i = 1; $i <= $num_fields; $i++) {
                    echo "<input type='text' name='field_name_$i' placeholder='Field $i Name'
required><br>";
                }
            }
            ?>
```

```
        <input type="submit" name="submit" value="Create Table">
    </form>

    <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        // Retrieve table name and number of fields from form submission
        $table_name = $_POST['table_name'];
        $num_fields = $_POST['num_fields'];

        // Construct SQL query to create the table
        $sql = "CREATE TABLE $table_name (";
        for ($i = 1; $i <= $num_fields; $i++) {
            $field_name = $_POST["field_name_$i"];
            $sql .= "$field_name VARCHAR(255) NOT NULL";
            if ($i < $num_fields) {
                $sql .= ",";
            }
        }
        $sql .= ")";

        // Connect to MySQL server
        $servername = "localhost"; // Change this if MySQL server is running on a different
host
        $username = "root"; // Your MySQL username
        $password = ""; // Your MySQL password
        $database = "WT_P7"; // Your MySQL database name

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

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

        // Execute SQL query to create the table
        if ($conn->query($sql) === TRUE) {
            echo "<div class='message'>Table '$table_name' created successfully.</div>";
        } else {
            echo "<div class='message'>Error creating table: " . $conn->error . "</div>";
        }

        // Close connection
```

```
        $conn->close();
    }
    ?>
  </div>
</body>
</html>
```