

**Web Technology Lab Sheet**

Submitted by :

Shrishma Ghimire

5th semester

16175

1. Design a simple website homepage containing basic elements of HTML.

Source code :

|  |
| --- |
| <!DOCTYPE html> |
|  | <html lang="en"> |
|  | <head> |
|  | <meta charset="utf-8"> |
|  | <titl> First question</titl> |
|  | </head> |
|  | <body> |
|  | <h1> Creating simple homepage using basic elements of html</h1> |
|  | <p><b> Hypertext Markup Language (HTML)</b> is the standard markup language for documents designed to be displayed in |
|  | a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages |
|  | such as JavaScript.</p> |
|  | <br> |
|  | <p><b> Let's create a table</b></p> |
|  | <table border="1" width="400" height="150"> |
|  | <tr> |
|  | <th> Movie Name </th> |
|  | <th> Movie released date</th> |
|  | </tr> |
|  | <tr> |
|  | <td> Sholay </td> |
|  | <td> 1965 </td> |
|  | </tr> |
|  | <tr> |
|  | <td> Mother India </td> |
|  | <td> 1957</td> |
|  | </tr> |
|  | <tr> |
|  | <td> Lgaan</td> |
|  | <td> 2001 </td> |
|  | </tr> |
|  | </table> |
|  | <br> |
|  | <b> Let's create a list</b> |
|  | <ol> |
|  | <li> Nepal</li> |
|  | <li> China</li> |
|  | <li> India</li> |
|  | </ol> |
|  | <br> |
|  | <a href="www.google.com">Click here to redirect to Google</a> |
|  | <br><br> |
|  | <div> |
|  | <form> |
|  | User ID : <input type="text" name="user\_id"/> |
|  | <br><br> |
|  | Password : <input type="password" name="password"/> |
|  | <br> |
|  | <br> |
|  | Gender : <input type="radio" name="Binary"> Binary |
|  | <input type="radio" name="NonBinary"> Non-Binary |
|  | <br><br> |
|  | Subject : <input type="checkbox" name="Maths" value="M"> Maths |
|  | <input type="checkbox" name="Computer" value="C"> Computer |
|  | <br><br> |
|  | <input type="button" name="Submit" value="Submit"> Submit |
|  | </form> |
|  | </div> |
|  | </body> |
|  | </html> |

**Output :**



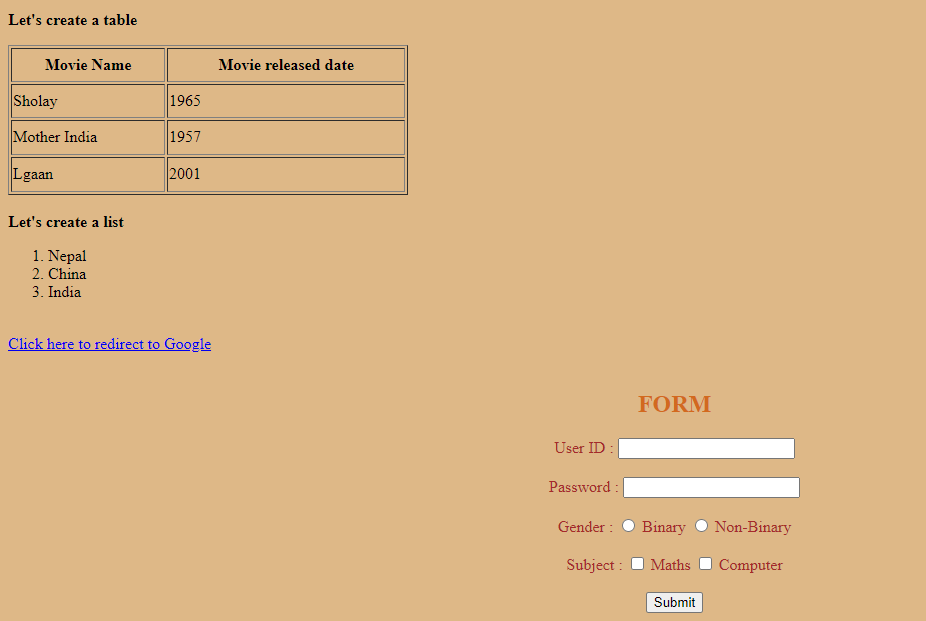


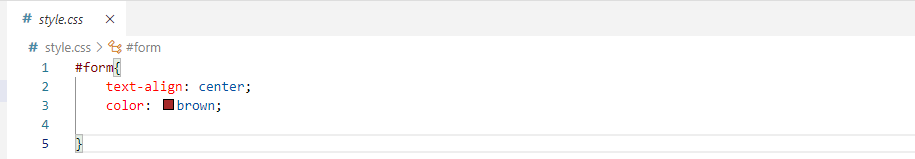
2.Design a simple webpage which contains Inline, Internal and External CSS.

|  |
| --- |
| <!DOCTYPE html> |
|  | <html lang="en"> |
|  | <head> |
|  | <meta charset="utf-8"> |
|  | <title> First question</title> |
|  | <link rel="stylesheet" href="style.css"> |
|  | <style> |
|  | body{background-color: burlywood;} |
|  | </style> |
|  | </head> |
|  | <body> |
|  | <h1 style="color:rgb(126, 64, 6);"> Creating simple homepage using basic elements of html</h1> |
|  | <p><b> Hypertext Markup Language (HTML)</b> is the standard markup language for documents designed to be displayed in |
|  | a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages |
|  | such as JavaScript.</p> |
|  | <br> |
|  | <p><b> Let's create a table</b></p> |
|  | <table border="1" width="400" height="150"> |
|  | <tr> |
|  | <th> Movie Name </th> |
|  | <th> Movie released date</th> |
|  | </tr> |
|  | <tr> |
|  | <td> Sholay </td> |
|  | <td> 1965 </td> |
|  | </tr> |
|  | <tr> |
|  | <td> Mother India </td> |
|  | <td> 1957</td> |
|  | </tr> |
|  | <tr> |
|  | <td> Lgaan</td> |
|  | <td> 2001 </td> |
|  | </tr> |
|  | </table> |
|  | <br> |
|  | <b> Let's create a list</b> |
|  | <ol> |
|  | <li> Nepal</li> |
|  | <li> China</li> |
|  | <li> India</li> |
|  | </ol> |
|  | <br> |
|  | <a href="www.google.com">Click here to redirect to Google</a> |
|  | <br><br> |
|  | <div id="form"> |
|  | <form> |
|  | <h2 style="color: chocolate;">FORM</h2> |
|  | User ID : <input type="text" name="user\_id"/> |
|  | <br><br> |
|  | Password : <input type="password" name="password"/> |
|  | <br> |
|  | <br> |
|  | Gender : <input type="radio" name="Binary"> Binary |
|  | <input type="radio" name="NonBinary"> Non-Binary |
|  | <br><br> |
|  | Subject : <input type="checkbox" name="Maths" value="M"> Maths |
|  | <input type="checkbox" name="Computer" value="C"> Computer |
|  | <br><br> |
|  | <input type="button" name="Submit" value="Submit"> |
|  | </form> |
|  | </div> |
|  | </body> |
|  | </html> |

**Output:**







1. Design a Simple Form having Input Text Field, TextArea, Dropdown, Radio Button and Checkbox.

|  |
| --- |
| <!DOCTYPE html> |
|  | <head lang="en"> |
|  | <meta charset="utf-8"> |
|  | <title>3</title> |
|  | </head> |
|  | <body> |
|  | <h2 style="text-align: center;"> FORM </h2> |
|  | <form> |
|  | Name : <input type="text" name="Name" > |
|  | <br> |
|  | <br> |
|  | About you : <br/> |
|  | <textarea rows="9" cols="50" name="about you"> |
|  | Write about yourself |
|  | </textarea> |
|  | <br> |
|  | <br> |
|  | <select name="dropdown"> |
|  | <option value="CSIT" selected> CSIT</option> |
|  | <option value= "Engineering ">Engineering</option> |
|  | <option value="BCA">BCA</option> |
|  | </select> |
|  | <br> |
|  | <br> |
|  | Gender: <input type="radio" name="gender" value="Binary">Binary |
|  | <input type="radio" name="gender" value="Non-binary"> Non Binary </br><br> |
|  | Level : <input type="checkbox" value="7th sem"> 7th semester |
|  | <input type="checkbox" value="8th sem"> 8th semester |
|  | </form> |
|  | </body> |
|  | </html> |

OUTPUT:



1. Develop a simple website that checks the validity of the user login. Assume that the data is already in the database. Use Client Site script to check the empty values during login.

Source code:

<?php

session\_start();

$host = "localhost";

$user = "root";

$password = "";

$dbname = "qn1";

$con = mysqli\_connect($host, $user, $password,$dbname);

if (!$con) {

  die("Connection failed: " . mysqli\_connect\_error());

}

?>

**config.php**

<!-- localhost/Qn1/index.php in Chrome -->

<!-- C:/XAMPP/htdocs/Qn1/index.php save here always -->

<!doctype html>

<html>

    <head>

        <title>Login page with jQuery and AJAX</title>

        <link href="style.css" rel="stylesheet" type="text/css">

        <script src="jquery-3.2.1.min.js" type="text/javascript"></script>

        <script src="loginvalidate.js" type="text/javascript"></script>

    </head>

    <body>

        <div class="container">

            <div id="div\_login">

                <h1>Login</h1>

                <div id="message"></div>

                <div>

                    <input type="text" class="textbox" id="txt\_uname" name="txt\_uname" placeholder="Username" />

                </div>

                <div>

                    <input type="password" class="textbox" id="txt\_pwd" name="txt\_pwd" placeholder="Password"/>

                </div>

                <div>

                    <input type="button" value="Submit" name="but\_submit" id="but\_submit" />

                </div>

            </div>

        </div>

    </body>

</html>

**index.php**

|  |
| --- |
| <?php |
|  |  |
|  | // Destroy session |
|  | session\_destroy(); |
|  | header('Location: index.php'); |
|  | ?> |

**logout.php**

|  |
| --- |
| <?php |
|  |
|  | include "config.php"; |
|  |  |
|  | // Check user login or not |
|  | if(!isset($\_SESSION['uname'])){ |
|  | header('Location: index.php'); |
|  | } |
|  |  |
|  | ?> |
|  |  |
|  | <!doctype html> |
|  | <html> |
|  | <head> |
|  | <title>Login page with jQuery and AJAX</title> |
|  | </head> |
|  | <body> |
|  | <h1>Homepage</h1> |
|  | <br> |
|  | <a href="logout.php">Logout</a> |
|  | </body> |
|  | </html> |

**home.php**

|  |
| --- |
| /\* Container \*/ |
|  | .container{ |
|  | width:40%; |
|  | margin:0 auto; |
|  | } |
|  |  |
|  | /\* Login \*/ |
|  | #div\_login{ |
|  | border: 1px solid gray; |
|  | border-radius: 3px; |
|  | width: 470px; |
|  | height: 270px; |
|  | box-shadow: 0px 2px 2px 0px gray; |
|  | margin: 0 auto; |
|  | } |
|  |  |
|  | #div\_login h1{ |
|  | margin-top: 0px; |
|  | font-weight: normal; |
|  | padding: 10px; |
|  | background-color: cornflowerblue; |
|  | color: white; |
|  | font-family: sans-serif; |
|  | } |
|  |  |
|  | #div\_login div{ |
|  | clear: both; |
|  | margin-top: 10px; |
|  | padding: 5px; |
|  | } |
|  |  |
|  | #div\_login .textbox{ |
|  | width: 96%; |
|  | padding: 7px; |
|  | } |
|  |  |
|  | #div\_login input[type=submit]{ |
|  | padding: 7px; |
|  | width: 100px; |
|  | background-color: lightseagreen; |
|  | border: 0px; |
|  | color: white; |
|  | } |
|  |  |
|  | #message{ |
|  | width:100%; |
|  | text-align:center; |
|  | color:red; |
|  | } |
|  | /\* media \*/ |
|  | @media screen and (max-width:720px){ |
|  | .container{ |
|  | width: 100%; |
|  | } |
|  | #div\_login{ |
|  | width: 99%; |
|  | } |
|  | } |

**Style.css**

|  |
| --- |
| $(document).ready(function() { |
|  |  |
|  | $("#but\_submit").click(function() { |
|  | var username = $("#txt\_uname").val().trim(); |
|  | var password = $("#txt\_pwd").val().trim(); |
|  |  |
|  | if (username != "" && password != "") { |
|  | $.ajax({ |
|  | url: 'checkUser.php', |
|  | type: 'post', |
|  | data: { |
|  | username: username, |
|  | password: password |
|  | }, |
|  | success: function(response) { |
|  | var msg = ""; |
|  | if (response == 1) { |
|  | window.location = "home.php"; |
|  | } else { |
|  | msg = "Invalid username and password!"; |
|  | } |
|  | $("#message").html(msg); |
|  | } |
|  | }); |
|  | } else if (username == "" && password == "") { |
|  | msg = "Empty Password and Username Field" |
|  | $("#message").html(msg); |
|  | } else if (username == "") { |
|  | msg = "Empty Username Field"; |
|  | $("#message").html(msg); |
|  | } else if (password == "") { |
|  | msg = "Empty Password Field"; |
|  | $("#message").html(msg); |
|  | } |
|  | }); |
|  |  |
|  | }); |

**loginvalidate.js**

|  |
| --- |
| <?php |
|  | include "config.php"; |
|  |  |
|  | $uname = mysqli\_real\_escape\_string($con,$\_POST['username']); |
|  | $password = mysqli\_real\_escape\_string($con,$\_POST['password']); |
|  |  |
|  |  |
|  | if ($uname != "" && $password != ""){ |
|  |  |
|  | $sql\_query = "SELECT count(\*) as cntUser FROM users WHERE username='".$uname."' and password='".$password."'"; |
|  | $result = mysqli\_query($con,$sql\_query); |
|  | $row = mysqli\_fetch\_array($result); |
|  |  |
|  | $count = $row['cntUser']; |
|  |  |
|  | if($count > 0){ |
|  | $\_SESSION['uname'] = $uname; |
|  | echo 1; |
|  | }else{ |
|  | echo 0; |
|  | } |
|  |  |
|  | } |
|  | ?> |

**checkUser.php**

A. Create a database Student and create a Table (Table 1) in MySQL having following:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Column Name | ID | Firstname | Lastname | Gender | Class | Roll Number | Batch |
| Data Type | Int | Varchar | Varchar | Boolean (Male/Female) | int | varchar | int |
|  |  |  |  |  |  |  |  |

**Source code:**

**config.php**

|  |
| --- |
| <?php |
|  | $servername = "localhost"; |
|  | $username = "root"; |
|  | $password = ""; |
|  |  |
|  | // Create connection |
|  | $conn = mysqli\_connect($servername, $username, $password); |
|  | // Check connection |
|  | if (!$conn) { |
|  | die("Connection failed: " . mysqli\_connect\_error()); |
|  | } |
|  |  |
|  | // Create database |
|  | $sql = "CREATE DATABASE student"; |
|  | if (mysqli\_query($conn, $sql)) { |
|  | echo "Database created successfully"; |
|  | } else { |
|  | echo "Error creating database: " . mysqli\_error($conn); |
|  | } |
|  |  |
|  | mysqli\_close($conn); |
|  | ?> |

**mainTable.php**

|  |
| --- |
| <?php |
|  | $servername = "localhost"; |
|  | $username = "root"; |
|  | $password = ""; |
|  | $dbname = "student"; |
|  |  |
|  | // Create connection |
|  | $conn = mysqli\_connect($servername, $username, $password, $dbname); |
|  | // Check connection |
|  | if (!$conn) { |
|  | die("Connection failed: " . mysqli\_connect\_error()); |
|  | } |
|  |  |
|  | // sql to create table |
|  | $sql = "CREATE TABLE table\_1 ( |
|  | ID INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY, |
|  | Firstname VARCHAR(30) NOT NULL, |
|  | Lastname VARCHAR(30) NOT NULL, |
|  | Gender BOOLEAN NOT NULL, |
|  | Class INT(2) UNSIGNED NOT NULL, |
|  | RollNumber VARCHAR(30) NOT NULL, |
|  | Batch INT(2) UNSIGNED NOT NULL |
|  | )"; |
|  |  |
|  | if (mysqli\_query($conn, $sql)) { |
|  | echo "Table student created successfully"; |
|  | } else { |
|  | echo "Error creating table: " . mysqli\_error($conn); |
|  | } |
|  |  |
|  | mysqli\_close($conn); |
|  |  |
|  | ?> |

B. Create Separate Tables for Class and Batch containing ID,name

**secondaryTable.php**

|  |
| --- |
| <?php |
|  | $servername = "localhost"; |
|  | $username = "root"; |
|  | $password = ""; |
|  | $dbname = "student"; |
|  |  |
|  | // Create connection |
|  | $conn = mysqli\_connect($servername, $username, $password, $dbname); |
|  | // Check connection |
|  | if (!$conn) { |
|  | die("Connection failed: " . mysqli\_connect\_error()); |
|  | } |
|  |  |
|  | // sql to create table |
|  | $sql = "CREATE TABLE class ( |
|  | ID INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY , |
|  | Name VARCHAR(30) NOT NULL |
|  | )"; |
|  |  |
|  | if (mysqli\_query($conn, $sql)) { |
|  | echo "Table class created successfully"; |
|  | } else { |
|  | echo "Error creating table: " . mysqli\_error($conn); |
|  | } |
|  |  |
|  | $sql = "CREATE TABLE batch ( |
|  | ID INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY , |
|  | Name VARCHAR(30) NOT NULL |
|  | )"; |
|  |  |
|  | if (mysqli\_query($conn, $sql)) { |
|  | echo "Table batch created successfully"; |
|  | } else { |
|  | echo "Error creating table: " . mysqli\_error($conn); |
|  | } |
|  |  |
|  | mysqli\_close($conn); |
|  | ?> |

1. Create a Simple form (Form 1) in PHP having FirstName, Lastname, Gender (Radio Button), Class (dropdown), Roll Number and Batch (dropdown)

|  |
| --- |
| **Index.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>Qn4</title> |
|  | </head> |
|  |  |
|  | <body> |
|  | <form method="post" action="insert.php"> |
|  | <table> |
|  | <tr> |
|  | <td> <label for ="fname">First Name:</label> </td> |
|  |  |
|  |  |
|  | <td> |
|  | <input type="text" id="fname" name="firstname" required> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td> |
|  | <label for="lname">Last Name:</label> |
|  | </td> |
|  | <td> |
|  | <input type="text" id="lname" name="lastname" required> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td> |
|  | <label>Gender:</label> |
|  | </td> |
|  | <td> |
|  | <label> |
|  | <input type="radio" value="1" name="gender" required> Female</label> |
|  | <label> |
|  | <input value="0" type="radio" name="gender"> Male</label> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td> |
|  | <label for="class">Class:</label> |
|  | </td> |
|  | <td> |
|  | <select name="class" id="class"> |
|  | <option value="1">1</option> |
|  | <option value="2">2</option> |
|  | <option value="3">3</option> |
|  | <option value="4">4</option> |
|  | </select> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td> |
|  | <label for="roll">Roll No:</label> |
|  | </td> |
|  | <td> |
|  | <input type="text" id="roll" name="roll" required> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td> |
|  | <label for="batch">Batch:</label> |
|  | </td> |
|  | <td> |
|  | <select name="batch" id="batch"> |
|  | <option value="1">1</option> |
|  | <option value="2">2</option> |
|  | <option value="3">3</option> |
|  | <option value="4">4</option> |
|  | </select> |
|  | </td> |
|  | </tr> |
|  | <tr> |
|  | <td></td> |
|  | <td> |
|  | <input type="submit" value="Submit"> |
|  | <input type="reset"> |
|  | </td> |
|  | </tr> |
|  | </table> |
|  | </form> |
|  | <a href ="list.php"><h3>See database</h3></a> |
|  | </body> |
|  |  |
|  | </html> |

D. Use Client Side required validation in the Form 1

insert.php

|  |
| --- |
| <?php |
|  |  |
|  | $servername = "localhost"; |
|  | $username = "root"; |
|  | $password = ""; |
|  | $dbname = "student"; |
|  |  |
|  | $conn = mysqli\_connect($servername, $username,$password,$dbname); |
|  | if (!$conn) { |
|  | die("Connection failed: " . mysqli\_connect\_error()); |
|  | } |
|  |  |
|  | $firstname = $\_REQUEST['firstname']; |
|  | $lastname = $\_REQUEST['lastname']; |
|  | $gender = $\_REQUEST['gender']; |
|  | $class = $\_REQUEST['class']; |
|  | $roll = $\_REQUEST['roll']; |
|  | $batch = $\_REQUEST['batch']; |
|  |  |
|  | $sql = "INSERT INTO table\_1 (Firstname,Lastname,Gender,Class,RollNumber,Batch) VALUES ('$firstname', |
|  | '$lastname','$gender','$class','$roll','$batch')"; |
|  |  |
|  | if (mysqli\_query($conn, $sql)) { |
|  | header('Location: index.php'); |
|  | } else { |
|  | echo "ERROR: Hush! Sorry $sql. " |
|  | . mysqli\_error($conn); |
|  | } |
|  |  |
|  | // Close connection |
|  | mysqli\_close($conn); |
|  | ?> |
|  |  |

E.Connect Database and Table 1 and insert the data filled in Form 1

**insert.php**

|  |
| --- |
| <?php |
|  |  |
|  | $servername = "localhost"; |
|  | $username = "root"; |
|  | $password = ""; |
|  | $dbname = "student"; |
|  |  |
|  | $conn = mysqli\_connect($servername, $username,$password,$dbname); |
|  | if (!$conn) { |
|  | die("Connection failed: " . mysqli\_connect\_error()); |
|  | } |
|  |  |
|  | $firstname = $\_REQUEST['firstname']; |
|  | $lastname = $\_REQUEST['lastname']; |
|  | $gender = $\_REQUEST['gender']; |
|  | $class = $\_REQUEST['class']; |
|  | $roll = $\_REQUEST['roll']; |
|  | $batch = $\_REQUEST['batch']; |
|  |  |
|  | $sql = "INSERT INTO table\_1 (Firstname,Lastname,Gender,Class,RollNumber,Batch) VALUES ('$firstname', |
|  | '$lastname','$gender','$class','$roll','$batch')"; |
|  |  |
|  | if (mysqli\_query($conn, $sql)) { |
|  | header('Location: index.php'); |
|  | } else { |
|  | echo "ERROR: Hush! Sorry $sql. " |
|  | . mysqli\_error($conn); |
|  | } |
|  |  |
|  | // Close connection |
|  | mysqli\_close($conn); |
|  | ?> |

F. Create a list php page which displays the data saved in Table 1

**list.php**

|  |
| --- |
| <?php |
|  | $username = "root"; |
|  | $password = ""; |
|  | $database = "student"; |
|  | $mysqli = new mysqli("localhost", $username, $password, $database); |
|  |  |
|  | $query = "SELECT \* FROM table\_1"; |
|  | echo "<b> <center>Database Output</center> </b> <br> <br>"; |
|  |  |
|  | if ($result = $mysqli->query($query)) { |
|  | echo '<table style="width:100%">'; |
|  | echo '<tr style="font-size:20px;font-weight:bold;">'; |
|  | echo '<td>ID</td>'; |
|  | echo '<td>Firstname</td>'; |
|  | echo '<td>Lastname</td>'; |
|  | echo '<td>Gender</td>'; |
|  | echo '<td>RollNumber</td>'; |
|  | echo '<td>Batch</td>'; |
|  | echo '</tr>'; |
|  |  |
|  | while ($row = $result->fetch\_assoc()) { |
|  | $id = $row["ID"]; |
|  | $firstname = $row["Firstname"]; |
|  | $lastname = $row["Lastname"]; |
|  | $gender = $row["Gender"]; |
|  | $roll = $row["RollNumber"]; |
|  | $batch = $row["Batch"]; |
|  |  |
|  | echo '<tr style="font-size:18px">'; |
|  | echo '<td>' . $id . '</td>'; |
|  | echo '<td>' . $firstname . '</td>'; |
|  | echo '<td>' . $lastname . '</td>'; |
|  | echo '<td>' . $gender . '</td>'; |
|  | echo '<td>' . $roll . '</td>'; |
|  | echo '<td>' . $batch . '</td>'; |
|  | echo '</tr>'; |
|  |  |
|  | } |
|  | echo '</table>'; |
|  |  |
|  | /\*freeresultset\*/ |
|  | $result->free(); |
|  | } |
|  | ?> |