# Experiment – 1

**Aim**: Design web pages for your collage containing a description of the courses, departments , facilities, library etc. use href,list tags

**Source code:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title> MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY </title>
</head>
<body>
 <header>
 <h1> MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY</h1>
 </header>
<img src=" c:\Users\HP\Downloads\m11.png" height="200px", width="200px"/>
 <nav>
 <ul>
 <li><a href="#courses">Courses</a></li>
 <li><a href="#departments">Departments</a></li>
 <li><a href="#facilities">Facilities</a></li>
 <li><a href="#library">Library</a></li>
 </ul>
 </nav>
 <section id="courses">
 <h2>Courses</h2>
 <ul>
 <li>computer scince and technology</li>
 <li>computer science and engineering</li>
 <li>mechanical engineering</li>
```

```html
<li>electrical engineering</li>
<li>electronics engineering</li>
<li>information technology</li>
<li>information technology and engineering</li>
</ul>
</section>
<section id="departments">
<h2>Departments</h2>
<p>Learn about our various academic departments.</p>
<ul>
<li><a href="cst" >computer scince and technology</a> </li>
<li><a href="cst" >computer scince and engineering</a> </li>
<li><a href="cst" >mechanical engineering</a> </li>
<li><a href="cst" >electrical engineering</a> </li>
<li><a href="cst" >electronics engineering</a> </li>
<li><a href="cst" >information technology</a> </li>
<li><a href="cst" >information technology and engineering</a> </li>
</section>
<section id="facilities">
<h2>Facilities</h2>
<li>computer centers</li>
<li>NCC</li>
<li>NSS</li>
<li>innovation and R/D research </li>
<li>library</li>
<li>canteen </li>
<li>gym </li>
<li>hostel</li>
<li>bank etc.</li>
</section>
```

```html
<section id="library">
<h2>Library</h2>
<p>The Institute is well equipped with four floors of library with an approximate seating of 350 students. The library forms an excellent blend of books covering the course curriculum, magazines, journals and beyond the curriculum reading material along with the availability of the Digital Library. The library area is equipped with the Wi-Fi facility on all four floors to cater for the access of online study material for the benefit of students.</p>
<img src=" c:\Users\DELL\Downloads\l1.jpg" height="500px", width="400px"/>
</section>
<footer>
<p>&copy; 2024 MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY. All rights reserved.</p>
</footer>
</body>
</html>
```

**OUTPUT:**

# Departments

Learn about our various academic departments.

- computer scince and technology
- computer scince and engineering
- mechanical engineering
- electrical engineering
- electronics engineering
- information technology
- information technology and engineering

# Facilities

- computer centers
- NCC
- NSS
- innovation and R/D research
- library
- canteen
- gym
- hostel
- bank etc.

## Library

The Institute is well equipped with four floors of library with an approximate seating of 350 students. The library forms an excellent blend of books covering the course curriculum, magazines, journals and beyond the curriculum reading material along with the availability of the Digital Library. The library area is equipped with the Wi-Fi facility on all four floors to cater for the access of online study material for the benefit of students.

# EXPERIMENT-2

**Aim**: Write html code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background color.

**Source Code:**

```
<!DOCTYPE html>

<html>

<head>

 <title>Two-Frame Webpage</title>

</head>

<frameset rows="50%, 50%">

 <frameset cols="50%, 50%">

 <frame src="frame1.html" name="frame1" frameborder="0" scrolling="auto" noresize>

<frame src="frame2.html" name="frame2" frameborder="0" scrolling="auto" noresize>

</frameset>

 <frameset cols="50%, 50%">

 <frame src="frame3.html" name="frame3" frameborder="0" scrolling="auto" noresize>

<frame src="frame4.html" name="frame4" frameborder="0" scrolling="auto" noresize>

</frameset>

</frameset>

</html>

Frame1.html

<!DOCTYPE html>

<html>

<head>

 <title>Frame 1</title>

 <style>

body {

 background-color: red;

 }

 </style>
```

```
</head>
<body>
 <h1>Frame 1 Content</h1>
</body>
</html>
```

Frame2.html

```
<!DOCTYPE html>
<html>
<head>
 <title>Frame 2</title>
<style> body {
 background-color: green;
 }
 </style>
</head>
<body>
 <h1>Frame 2 Content</h1>
</body>
</html>
```
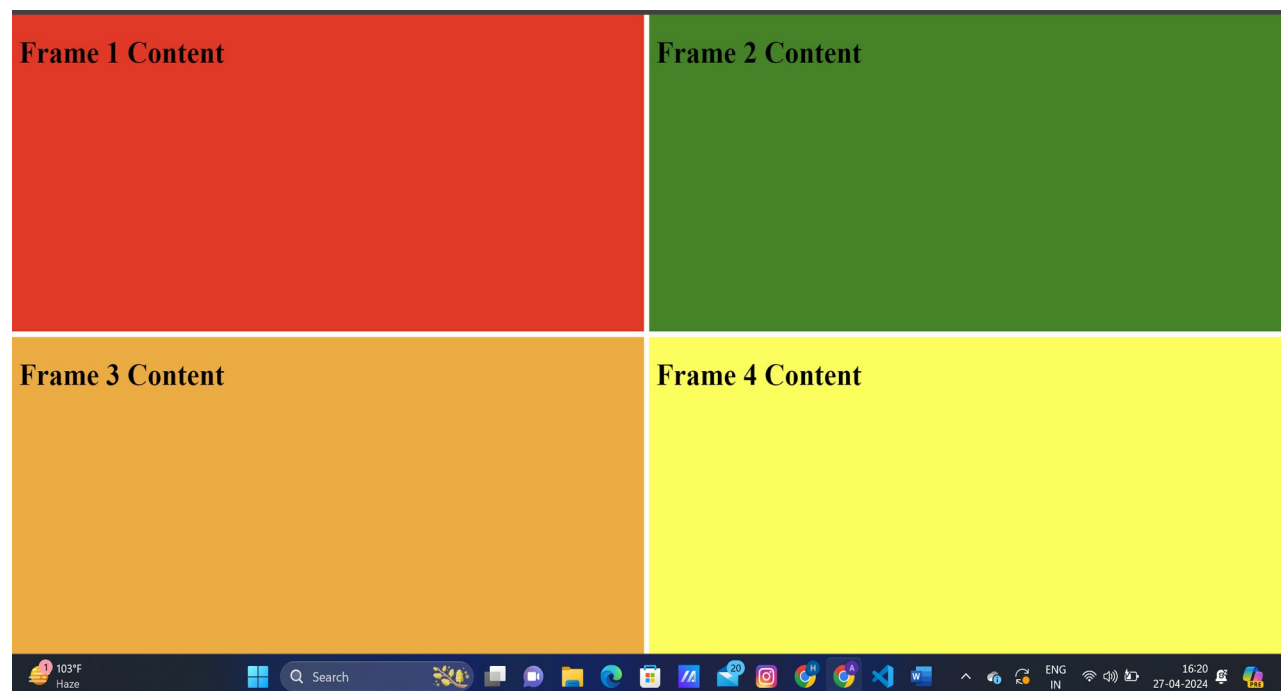
Frame3.html

```
<!DOCTYPE html>
<html>
<head>
 <title>Frame 3</title>
<style> body {
 background-color: orange;
 }
 </style>
</head>
<body>
```

```
    <h1>Frame 3 Content</h1>
</body>
</html>
Frame4.html
<!DOCTYPE html>
<html>
<head>
 <title>Frame 4</title>
 <style>
body {
 background-color: yellow;
 }
 </style>
</head>
<body>
 <h1>Frame 4 Content</h1>
</body>
</html>
```

**OUTPUT:**

# Experiment – 3

**Aim:** Design a web page for your home town with an attractive background color, text color ,an image, font , etc. (use internal css).

**Source code :**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>MY Hometown</title>
 <style>
 body {
 background-color: #f0f0f0;
 color: #d13131;
 font-family: 'Arial', sans-serif;
 margin: 0;
 padding: 0;
 }
 header {
 background-color: #670773;
 color: #fff;
 text-align: center;
 padding: 20px;
 }
 section {
 max-width: 800px;
 margin: 20px auto;
 padding: 20px;
 background-color: #fff;
 box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
      }
      img {
      max-width: 100%;
      height: auto;
      border-radius: 5px;
      }
      p {
      line-height: 1.5;
      }
      footer {
      background-color: #820d6c;
      color: #fff;
      text-align: center;
      padding: 10px;
      position: fixed;
      bottom: 0;
      width: 100%;
      }
     </style>
    </head>
    <body>
     <header>
     <h1>Welcome to Your Hometown</h1>
     </header>
     <section>
     <img src="myhometown.png" alt="MY Hometown Image"  width="200px">
     <h2>About MY Hometown</h2>
     <p>
```

My name is Harsh Dogra , and I am from Himachal Pradesh, India. Himachal Pradesh is a state in the northern part of India. Situated in the Western Himalayas, it is one of the thirteen mountain states and is characterised by an extreme landscape featuring several peaks and

extensive river systems. Himachal Pradesh is the northernmost state of India and shares borders with the union territories of Jammu and Kashmir and Ladakh to the north, and the states of Punjab to the west, Haryana to the southwest, Uttarakhand to the southeast and a very narrow border with Uttar Pradesh to the south. The state also shares an international border to the east with the Tibet Autonomous Region in China. Himachal Pradesh is also known as Dev Bhoomi or Dev Bhumi, meaning 'Land of Gods' and Veer Bhoomi which means 'Land of the Brave'.
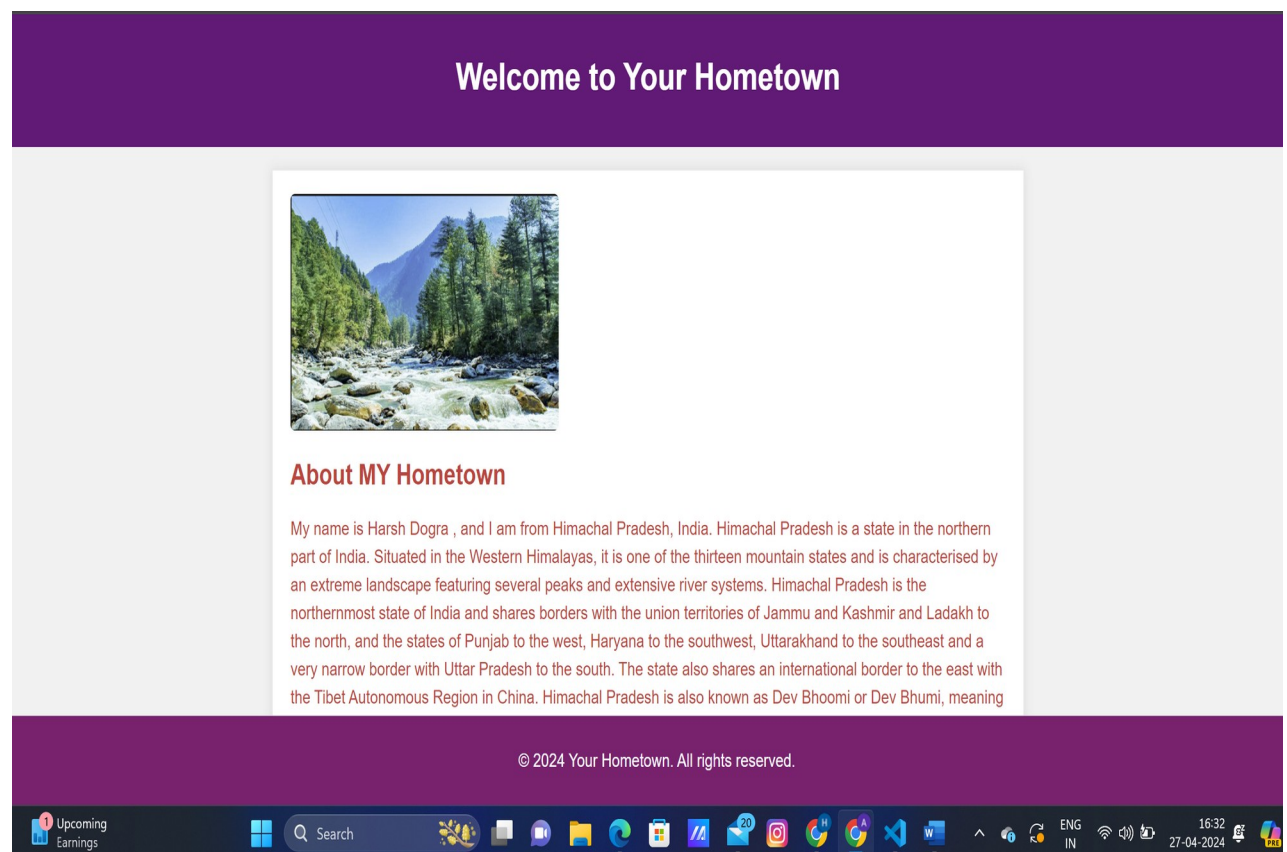
&lt;/section&gt;

&lt;footer&gt;

&lt;p&gt;&amp;copy; 2024 Your Hometown. All rights reserved.&lt;/p&gt;

&lt;/footer&gt;

&lt;/body&gt;

&lt;/html&gt;

**OUTPUT:**

# Experiment – 4

**Aim:** Use external, internal and inline css to format collage web that you created.

**Source Code** :

## HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title> MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY </title>
</head>
<body>
 <header>
 <h1> MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY</h1>
 </header>
 <img src=" c:\Users\HP\Downloads\m11.png" height="200px", width="200px"/>
 <nav>
 <ul>
 <li><a href="#courses">Courses</a></li>
 <li><a href="#departments">Departments</a></li>
 <li><a href="#facilities">Facilities</a></li>
 <li><a href="#library">Library</a></li>
 </ul>
 </nav>
 <section id="courses">
 <h2>Courses</h2>
 <ul>
 <li>computer scince and technology</li>
 <li>computer science and engineering</li>
 <li>mechanical engineering</li>
```

```html
<li>electrical engineering</li>
<li>electronics engineering</li>
<li>information technology</li>
<li>information technology and engineering</li>
</ul>
</section>
<section id="departments">
<h2>Departments</h2>
<p>Learn about our various academic departments.</p>
<ul>
<li><a href="cst" >computer scince and technology</a> </li>
<li><a href="cst" >computer scince and engineering</a> </li>
<li><a href="cst" >mechanical engineering</a> </li>
<li><a href="cst" >electrical engineering</a> </li>
<li><a href="cst" >electronics engineering</a> </li>
<li><a href="cst" >information technology</a> </li>
<li><a href="cst" >information technology and engineering</a> </li>
</section>
<section id="facilities">
<h2>Facilities</h2>
<li>computer centers</li>
<li>NCC</li>
<li>NSS</li>
<li>innovation and R/D research </li>
<li>library</li>
<li>canteen </li>
<li>gym </li>
<li>hostel</li>
<li>bank etc.</li>
</section>
```

```html
<section id="library">
<h2>Library</h2>
<p>The Institute is well equipped with four floors of library with an approximate seating of
350 students. The library forms an excellent blend of books covering the course curriculum,
magazines, journals and beyond the curriculum reading material along with the availability of
the
Digital Library. The library area is equipped with the Wi-Fi facility on all four floors to cater
for
the access of online study material for the benefit of students.</p>
<img src=" c:\Users\HP\Downloads\l1.jpg" height="500px", width="400px"/>
</section>
<footer>
<p>&copy; 2024 MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY. All rights
reserved.</p>
</footer>
</body>
</html>
```

CSS

```css
body {
 background-color: #f0f0f0;
 color: #333;
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 0;
}
header {
 background-color: #3498db;
 color: #fff;
 text-align: center;
 padding: 20px;
}
```

```css
nav ul {
 list-style-type: none;
 padding: 0;
}
nav li {
 display: inline-block;
 margin-right: 15px;
}
section {
 max-width: 800px;
 margin: 20px auto;
 padding: 20px;
 background-color: #fff;
 box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
img {
 max-width: 100%;
 height: auto;
 border-radius: 5px;
}
footer {
 background-color: #3498db;
 color: #fff;
 text-align: center;
 padding: 10px;
 position: fixed;
 bottom: 0;
 width: 100%;
}
<!-- Inside the head of your HTML document -->
```

```html
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY</title>
 <style>
h1 {
font-size: 2em;
}
h2 {
color: #3498db;
}
#courses ul {
padding-left: 20px;
}
#departments ul {
list-style-type: none;
padding: 0;
}
#departments li {
margin-bottom: 10px;
}
#facilities li,
#library p {
line-height: 1.5;
}
 </style>
</head>
<!-- Inline styles within HTML elements -->
<body style="background-color: #f0f0f0; color: #333; font-family: 'Arial', sans-serif; margin: 0;
padding: 0;">
```

```
<header style="background-color: #3498db; color: #fff; text-align: center; padding: 20px;">
 <h1 style="font-size: 2em;">MAHARAJA AGRASEN INSTITUTE OF
TECHNOLOGY</h1>
</header>
```

**OUTPUT:**

## Departments

Learn about our various academic departments.

[computer scince and technology](#)

[computer scince and engineering](#)

[mechanical engineering](#)

[electrical engineering](#)

[electronics engineering](#)

[information technology](#)

[information technology and engineering](#)

## Facilities

- computer centers
- NCC
- NSS
- innovation and R/D research
- library
- canteen
- gym
- hostel
- bank etc.

MAHARAJA AGRASEN INSTITUT ×   +

File | C:/Users/HP/web%20tech%20ex%201.html

## Library

The Institute is well equipped with four floors of library with an approximate seating of 350 students. The library forms an excellent blend of books covering the course curriculum, magazines, journals and beyond the curriculum reading material along with the availability of the Digital Library. The library area is equipped with the Wi-Fi facility on all four floors to cater for the access of online study material for the benefit of students.
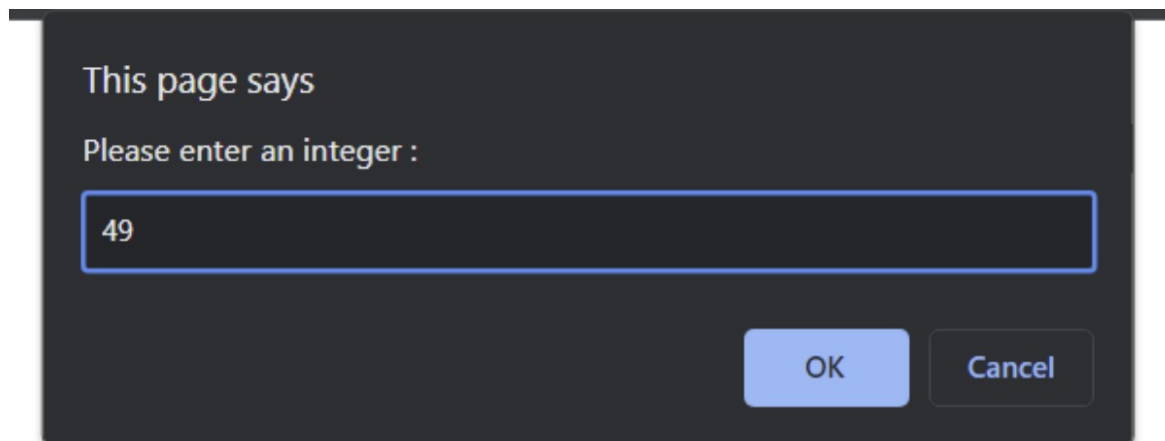
# Experiment – 5

**Aim:** Create a html page with java script which takes integer no. as input and tells it is even **or odd.**

**Source Code:**

```
<html>
<body>
<script>
 const x = prompt("Please enter an integer : ");
 if(x %2==0)
 document.write(x + " is an Even Number");
 else
 document.write(x + " is an Odd Number");
</script>
</body>
</html>
```

**OUTPUT:**



49 is an Odd Number

# EXPERIMENT – 6

**Aim:** Create HTML Page that contains form with fields Name, Email, Mobile No, Gender , Favourite Colour and a button now write a JavaScript code to combine and display the information in textbox when the button is clicked and implement validation.

**Source Code:**

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>User Information</title>

<style>

    .container {

        max-width: 400px;

        margin: 0 auto;

        padding: 20px;

        border: 1px solid #ccc;

        border-radius: 5px;

    }

    .form-group {

        margin-bottom: 10px;

    }

</style>

</head>

<body>

<div class="container">

    <h2>User Information</h2>

    <form id="userInfoForm">

        <div class="form-group">

            <label for="name">Name:</label>

            <input type="text" id="name" name="name" required>
```

```html
        </div>
        <div class="form-group">
            <label for="email">Email:</label>
            <input type="email" id="email" name="email" required>
        </div>
        <div class="form-group">
            <label for="mobile">Mobile No:</label>
            <input type="text" id="mobile" name="mobile" pattern="[0-9]{10}" required>
        </div>
        <div class="form-group">
            <label for="gender">Gender:</label>
            <select id="gender" name="gender" required>
                <option value="">Select</option>
                <option value="male">Male</option>
                <option value="female">Female</option>
                <option value="other">Other</option>
            </select>
        </div>
        <div class="form-group">
            <label for="color">Favorite Color:</label>
            <input type="color" id="color" name="color" required>
        </div>
        <button type="button" onclick="displayUserInfo()">Submit</button>
    </form>
    <div class="form-group">
        <label for="userInfo">Combined Information:</label>
        <textarea id="userInfo" rows="4" readonly></textarea>
    </div>
</div>
<script>
```

```
function displayUserInfo() {

    var name = document.getElementById("name").value;

    var email = document.getElementById("email").value;

    var mobile = document.getElementById("mobile").value;

    var gender = document.getElementById("gender").value;

    var color = document.getElementById("color").value;

    if (name === "" || email === "" || mobile === "" || gender === "") {

        alert("Please fill out all fields.");

        return;

    }

    var userInfo = "Name: " + name + "\n";

    userInfo += "Email: " + email + "\n";

    userInfo += "Mobile No: " + mobile + "\n";

    userInfo += "Gender: " + gender + "\n";

    userInfo += "Favorite Color: " + color;

    document.getElementById("userInfo").value = userInfo;

  }

</script>

</body>

</html>
```

**OUTPUT:**

# EXPERIMENT-7

**Aim:** Create an XML file to store student information such as Name, Enrollment No, Mobile No, Email ID.

**Source Code:**

```xml
<?xml version="1.0" encoding="UTF-8"?>

<students>

<student>

<enrollment_number>00514812721</enrollment_number>

<name>HARSH DOGRA</name>

<mobile_number>9999988888</mobile_number>

<email_id>test@gmail.com</email_id>

</student>

<student>

<enrollment_number>0077812721</enrollment_number>

<name>ALEX</name>

<mobile_number>9876543210</mobile_number>

<email_id>bob@gmail.com</email_id>

</student>

<student>

<enrollment_number>0087812721</enrollment_number>

<name>RAJ</name>

<mobile_number>9876543210</mobile_number>

<email_id>raj@gmail.com</email_id>

</student>

<student>

<enrollment_number>0097812721</enrollment_number>

<name>ROHAN</name>

<mobile_number>9876543210</mobile_number>

<email_id>rohan@gmail.com</email_id>

</student>

</students>
```

**OUTPUT:**

```xml
▼<students>
  ▼<student>
      <enrollment_number>00514812721</enrollment_number>
      <name>HARSH DOGRA</name>
      <mobile_number>9999988888</mobile_number>
      <email_id>test@gmail.com</email_id>
    </student>
  ▼<student>
      <enrollment_number>0077812721</enrollment_number>
      <name>ALEX</name>
      <mobile_number>9876543210</mobile_number>
      <email_id>bob@gmail.com</email_id>
    </student>
  ▼<student>
      <enrollment_number>0087812721</enrollment_number>
      <name>RAJ</name>
      <mobile_number>9876543210</mobile_number>
      <email_id>raj@gmail.com</email_id>
    </student>
  ▼<student>
      <enrollment_number>0097812721</enrollment_number>
      <name>ROHAN</name>
      <mobile_number>9876543210</mobile_number>
      <email_id>rohan@gmail.com</email_id>
    </student>
</students>
```

# EXPERIMENT 8

**Aim:**Write a php script to read data from txt file and display it in html table (the file contains info in format Name: Password: Email ).

**Source Code:**

```
<!DOCTYPE html>

<head>

    <title>User Information</title>

    <style>

      table {

        border-collapse: collapse;

        width: 100%;

      }

      th, td {

        border: 1px solid #ddd;

        padding: 8px;

        text-align: left;

      }

      th {

        background-color: #f2f2f2;

      }

    </style>

</head>

<body>

    <?php

$filename = 'data.txt';

$data = array();

if (file_exists($filename)) {

    $file = fopen($filename, 'r');

    if ($file) {

      while (($line = fgets($file)) !== false) {

        $data[] = explode(":", $line); // Split each line by ":"
```

```php
        }
        fclose($file);
        if (!empty($data)) {
            echo "<table>";
            echo "<tr><th>Name</th><th>Password</th><th>Email</th></tr>";
            foreach ($data as $row) {
                echo "<tr>";
                foreach ($row as $value) {
                    echo "<td>$value</td>"; // Output each value in a table cell
                }
                echo "</tr>";
            }
            echo "</table>";
        } else {
            echo "The file is empty.";
        }
    } else {
        echo "Error: Unable to open file.";
    }
} else {
    echo "Error: File not found.";
}
?>
</body>
</html>
```
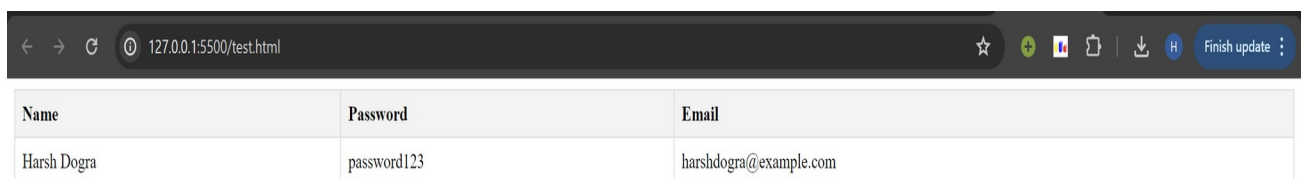
**OUTPUT:**



| Name | Password | Email |
| --- | --- | --- |
| Harsh Dogra | password123 | harshdogra@example.com |

# EXPERIMENT 9

Aim: Write a PHP Script for login authentication. Design an html form which takes username and password from user and validate against stored username and password in file.

Source Code:

Login.html

```html
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login</title>

</head>

<body>

<h2>Login</h2>

<form action="login.php" method="post">

    <label for="username">Username:</label><br>

    <input type="text" id="username" name="username" required><br>

    <label for="password">Password:</label><br>

    <input type="password" id="password" name="password" required><br><br>

    <input type="submit" value="Login">

</form>

</body>

</html>
```

Login.php

```php
<?php

function validateCredentials($username, $password) {

    $filename = 'users.txt';

    if (file_exists($filename)) {

        $file = fopen($filename, 'r');

        if ($file) {

            while (($line = fgets($file)) !== false) {
```

```php
list($storedUsername, $storedPassword) = explode(':', $line);

if (trim($username) === trim($storedUsername) && trim($password) ===
trim($storedPassword)) {

    fclose($file);

    return true;

        }

  fclose($file);

      } else {

return false; // Unable to open file

      }

    } else {

      return false; // File does not exist

    }

    return false; // Credentials not found

}

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

    $username = $_POST['username'];

    $password = $_POST['password'];

    if (validateCredentials($username, $password)) {

        exit;

    } else {

        echo "Invalid username or password. Please try again.";

    }

?>
```
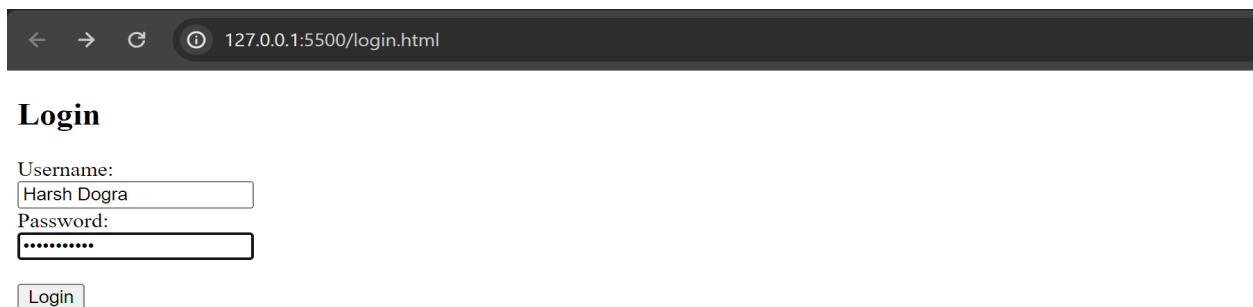
**OUTPUT:**



**Login**

Username:
Harsh Dogra
Password:
•••••••••

Login

# EXPERIMENT 10

**Aim**: Write PHP Script for storing and retrieving user information from MySql table.

 a. Design A HTML page which takes Name, Address, Email and Mobile No. From user (register.php)

b. Store this data in Mysql database / text file.

c. Next page display all user in html table using PHP (display.php)

**Source Code:**

Register.html

```
<!DOCTYPE html>
<head>
<title>User Registration</title>
</head>
<body>
<h2>User Registration</h2>
<form action="register.php" method="post">
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name" required><br>
    <label for="address">Address:</label><br>
    <textarea id="address" name="address" required></textarea><br>
    <label for="email">Email:</label><br>
    <input type="email" id="email" name="email" required><br>
    <label for="mobile">Mobile No.:</label><br>
    <input type="text" id="mobile" name="mobile" required><br><br>
    <input type="submit" value="Register">
</form>
</body>
</html>
```

Register.php

```
<?php
$servername = "localhost";
$username = "your_username";
```

```php
$password = "your_password";

$database = "your_database";

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

if ($conn->connect_error) {

    die("Connection failed: " . $conn->connect_error);

}

$name = $_POST['name'];

$address = $_POST['address'];

$email = $_POST['email'];

$mobile = $_POST['mobile'];

$sql = "INSERT INTO users (name, address, email, mobile) VALUES ('$name', '$address', '$email', '$mobile')";

if ($conn->query($sql) === TRUE) {

    echo "User registered successfully!";

} else {

    echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>
```

Display.php

```html
<!DOCTYPE html>

<head>

<title>User Information</title>

<style>

    table {

        border-collapse: collapse;

        width: 100%;

    }

    th, td {

        border: 1px solid #ddd;

        padding: 8px;
```

```
      text-align: left;

    }

    th {

      background-color: #f2f2f2;

    }

  </style>

</head>

<body>

<h2>User Information</h2>

<table>

    <tr>

       <th>Name</th>

       <th>Address</th>

       <th>Email</th>

       <th>Mobile No.</th>

    </tr>

    <?php

    $servername = "localhost";

    $username = "your_username";

    $password = "your_password";

    $database = "your_database";

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

    if ($conn->connect_error) {

       die("Connection failed: " . $conn->connect_error);

    }

    $sql = "SELECT * FROM users";

    $result = $conn->query($sql);

    if ($result->num_rows > 0) {

       while($row = $result->fetch_assoc()) {

          echo "<tr>";
```

```
        echo "<td>" . $row['name'] . "</td>";

        echo "<td>" . $row['address'] . "</td>";

        echo "<td>" . $row['email'] . "</td>";

        echo "<td>" . $row['mobile'] . "</td>";

        echo "</tr>";

    }

} else {

    echo "0 results";

}

$conn->close();

?>
</table>

</body>

</html>
```

**OUTPUT:**

# User Registration

Name:

Harsh Dogra

Address:

Ghaziabad, UP

Email:

dograharsh26@gmail.com

Mobile No.:

9999999999

Register

| Name | Address | Email | Mobile No. |
|------|---------|-------|------------|
| Harsh Dogra | Ghaziabad, UP | dograharsh26@gmail.com | 9999999999 |