

## Practical: 1

**Aim: To study about HTML Table and basis formatting tags.**

**a) Crate a table for your Class Time Table (Simple).**

### Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Time-Table</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <section>
      <table align="center">
        <tr>
          <td colspan="6">
            <p>S N Patel Institute of Technology & Research Center, Umrakh</p>
          </td>
        </tr>
        <tr>
          <td colspan="6">
            <p class="title2">Computer Science & Engineering Department</p>
          </td>
        </tr>
        <tr>
          <td colspan="2">Semester: 6</td>
          <td colspan="2"></td>
          <td colspan="2">Term : Summer 24</td>
        </tr>
        <tr>
          <td colspan="6">
            <p class="title2">Location : A15</p>
          </td>
        </tr>
        <tr bgcolor="gray">
          <td>Time</td>
          <td>Monday</td>
          <td>Tuesday</td>
          <td>Wednesday</td>
          <td>Thursday</td>
          <td>Friday</td>
        </tr>
        <tr>
          <td>09:30 to 10:25</td>
          <td rowspan="2">
            AJP Batch-A NMP A30<br>

```

AJP Batch-B VMP A30  CNS Batch-C RKC A27  </td> <td> TOC&lt;br&gt; RSM &lt;/td&gt; </td>	TOC  RSM </td>
CNS  RKC </td> <td> WP Batch-A NMP A27&lt;br&gt; CNS Batch-B VMP A29&lt;br&gt; IOT Batch-C RKC A31&lt;br&gt; &lt;/td&gt; </td>	WP Batch-A NMP A27  CNS Batch-B VMP A29  IOT Batch-C RKC A31  </td>
WP  VMP </td> <td> 10:25 to 11:20&lt;/td&gt; </td>	10:25 to 11:20</td>
CNS  SKT </td> <td> CNS Batch-A NMP A27&lt;br&gt; IOT Batch-B VMP A30&lt;br&gt; AJP Batch-C RKC A30&lt;br&gt; &lt;/td&gt; </td>	CNS Batch-A NMP A27  IOT Batch-B VMP A30  AJP Batch-C RKC A30  </td>
TOC-Tuto  RSM/GVP </td> <td> 11:20 to 12:15&lt;/td&gt; </td>	11:20 to 12:15</td>
IOT  BDP </td> <td> WP&lt;br&gt; VMP </td>	WP  VMP

```

</td>
<td>
  TOC<br>
  GVP
</td>
</tr>
<tr bgcolor="gray">
  <td>12:15 to 12:45</td>
  <td colspan="5">Lunch break</td>
</tr>
<tr>
  <td>12:45 to 01:40</td>
  <td>
    AJP<br>
    NMP
  </td>
  <td rowspan="2">
    IOT Batch-A DJP A27<br>
    WP Batch-B VMP A27<br>
    WP Batch-C SRB A20<br>
  </td>
  <td>
    WP<br>
    SRB
  </td>
  <td>
    CNS<br>
    RKC
  </td>
  <td>
    IPDC<br>
    KKP
  </td>
</tr>
<tr>
  <td>01:40 to 02:35</td>
  <td>
    DE-2B<br>
    VMP,RKC</p>
  </td>
  <td>
    WP<br>
    SRB
  </td>
  <td>
    AJP<br>

```

```

        BDP
    </td>
    <td>
        IPDC<br>
        KKP
    </td>
</tr>
<tr bgcolor="gray">
    <td>02:35 to 02:40</td>
    <td colspan="5">Break</td>
</tr>
<tr>
    <td>02:40 to 03:35</td>
    <td rowspan="2">
        DE-2B<br>
        VMP,RKC<br>
        A29<br>
    </td>
    <td>
        IOT<br>
        DJP
    </td>
    <td>
        IOT<br>
        BDP
    </td>
    <td>
        TOC<br>
        RSM
    </td>
    <td>
        AJP<br>
        BDP
    </td>
</tr>
<tr>
    <td>03:35 to 04:30</td>
    <td>
        TOC<br>
        GVP
    </td>
    <td>
        AJP<br>
        NMP
    </td>
    <td>

```

```
CNS<br>
SKT
</td>
<td>
IOT<br>
DJP
</td>
</tr>
</table>
</section>
<section></section>
<section></section>
</body>
</html>
```

### Styles.css

```
th,
td {
    border: 1px solid black;
    border-collapse: collapse;
}
```

```
table {
    width: 65%;
    border: 1px solid black;
    border-collapse: collapse;
    text-align:center;
}
```

**Output: -**

127.0.0.1:5500/Ronak\_07/WP\_Practicals/Practical%201/Time-Table/index.html

S N Patel Institute of Technology & Research Center, Umrakh					
Computer Science & Engineering Department					
Semester: 6			Term : Summer 24		
Location : A15					
Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:30 to 10:25	AJP Batch-A NMP A30	TOC RSM	CNS RKC	WP Batch-A NMP A27	WP VMP
10:25 to 11:20	AJP Batch-B VMP A30 CNS Batch-C RKC A27	CNS SKT	CNS Batch-A NMP A27 IOT Batch-B VMP A30 AJP Batch-C RKC A30	CNS Batch-B VMP A29 IOT Batch-C RKC A31	TOC-Tuto RSM/GVP
11:20 to 12:15	IOT BDP	WP VMP		TOC GVP	
12:15 to 12:45	Lunch break				
12:45 to 01:40	AJP NMP	IOT Batch-A DJP A27 WP Batch-B VMP A27 WP Batch-C SRB A20	WP SRB	CNS RKC	IPDC KKP
01:40 to 02:35	DE-2B VMP,RKC		WP SRB	AJP BDP	IPDC KKP
02:35 to 02:40	Break				
02:40 to 03:35	DE-2B VMP,RKC A29	IOT DJP	IOT BDP	TOC RSM	AJP BDP
03:35 to 04:30		TOC GVP	AJP NMP	CNS SKT	IOT DJP

**b) Create a following table using colspan and rowspan. Also write code to display texts shown in following table using various formatting tags.**

### **Index.html**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Practical 1</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <section>

        <table>

            <tr>

                <th rowspan="2" colspan="2">C1</th>

                <th rowspan="2">C2</th>

                <th colspan="3">C3</th>

            </tr>

            <tr>

                <td><u>C3.1</u></td>

                <td><u>C3.2</u></td>

            </tr>

            <tr>

                <td rowspan="2">R1</td>

                <td><del>R1a</del></td>

                <td>123</td>

                <td>456</td>

                <td>789</td>

            </tr>
```

```

<tr>

<td>&lt; HTML &gt;</td>

<td colspan="3">E=m*c<sup>2</sup></td>

</tr>

</table>

</section>

</body>

</html>

```

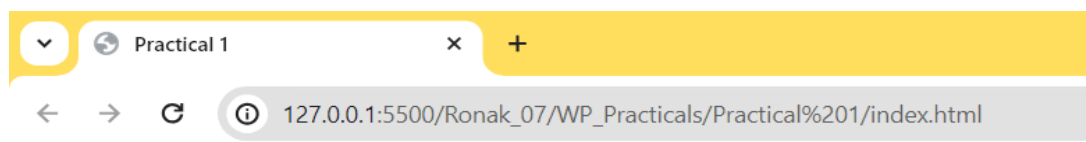
### Styles.css

```

table, tr, th, td {
    border: 1px solid black;
    border-collapse: collapse;
    text-align: center;
}

```

### Output:



C1		C2	C3	
			<u>C3.1</u>	<u>C3.2</u>
R1	<del>R1a</del>	123	456	789
	< HTML >	E=m*c <sup>2</sup>		



## Practical: 2

**Aim: To study about HTML Frame and Framesets.**

**a) Create a following layout with horizontal and vertical frames.**

Page 1	Page 2
	Page 3
	Page 4

### Index.html

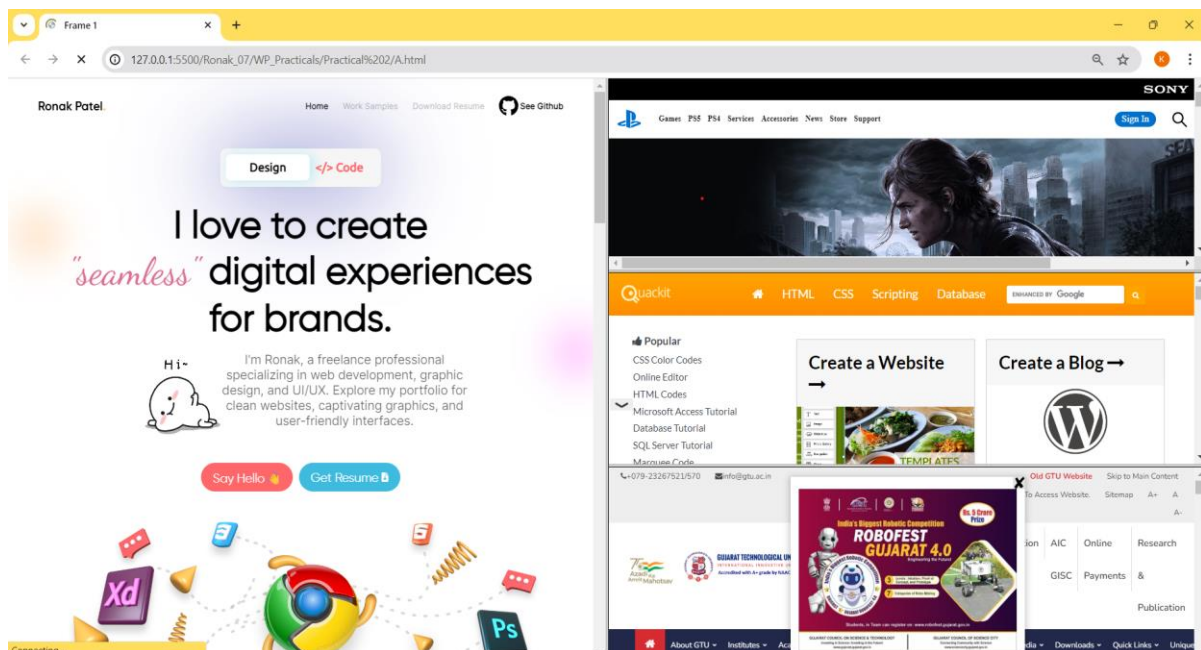
```
<html>
<head>
  <title>Frame 1</title>
</head>
<frameset cols="50%,50%">
  <frame src="https://ronak-codes.vercel.app/" >

  <frameset rows="33.34,33.34,33.34">
    <frame src="<frame src="https://playstation-clone-lovat.vercel.app/" ></frame>">

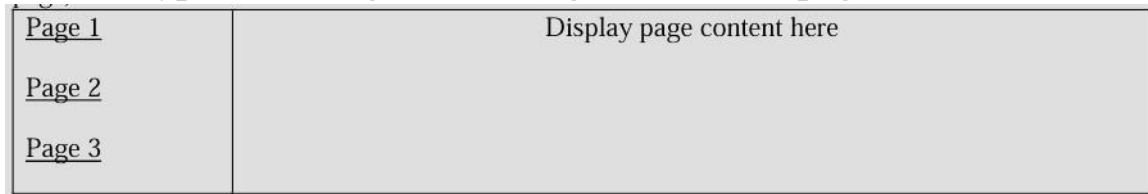
    <frame src="https://www.quackit.com/" >
    <frame src="https://www.gtu.ac.in/" >
    </frameset>
  </frameset>

</html>
```

### Output:



**b) Create a vertical navigation bar using frames. When user click a hyperlink in the navigation bar (left side of the page), the appropriate page is loaded into the hyperlinks target frame (right side of the page).**



### **Index.html**

```
<!DOCTYPE html>
<html>

<head>
  <title>Frame-based Navigation</title>
</head>

<frameset cols="200,*" frameborder="5">
  <frame name="navbar" src="navbar.html">
  <frame name="content" src="default.html">
</frameset>
</html>
```

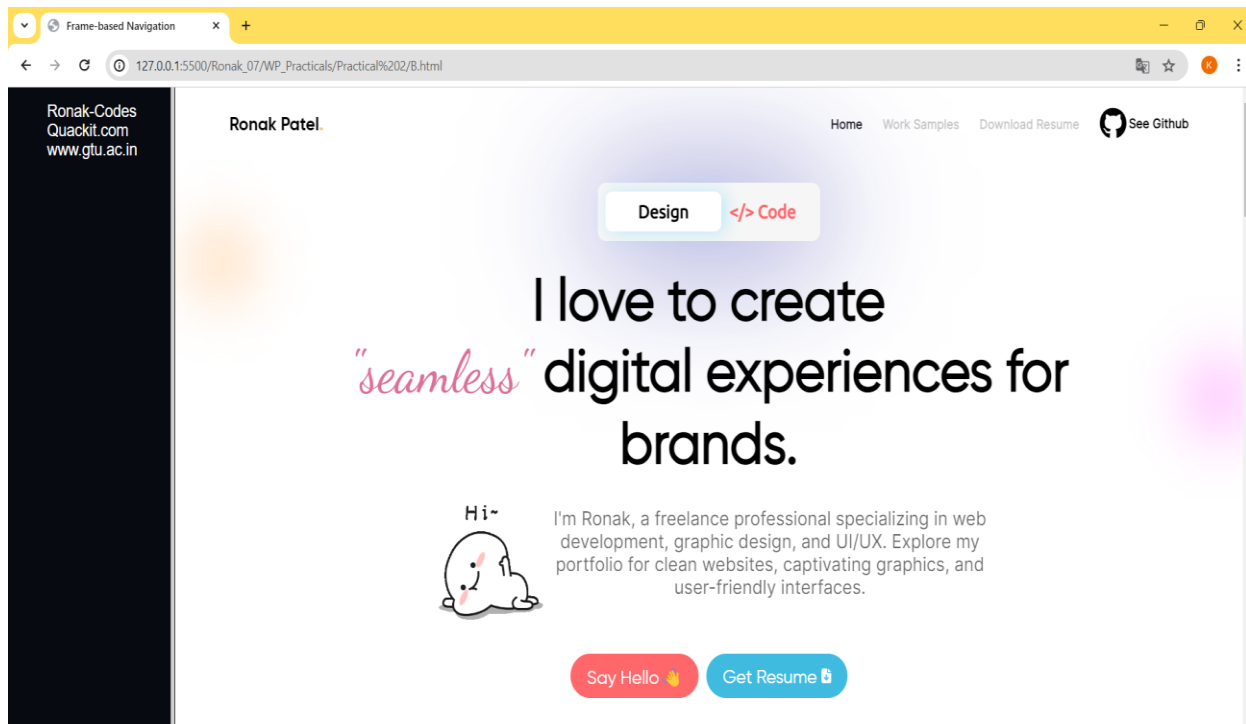
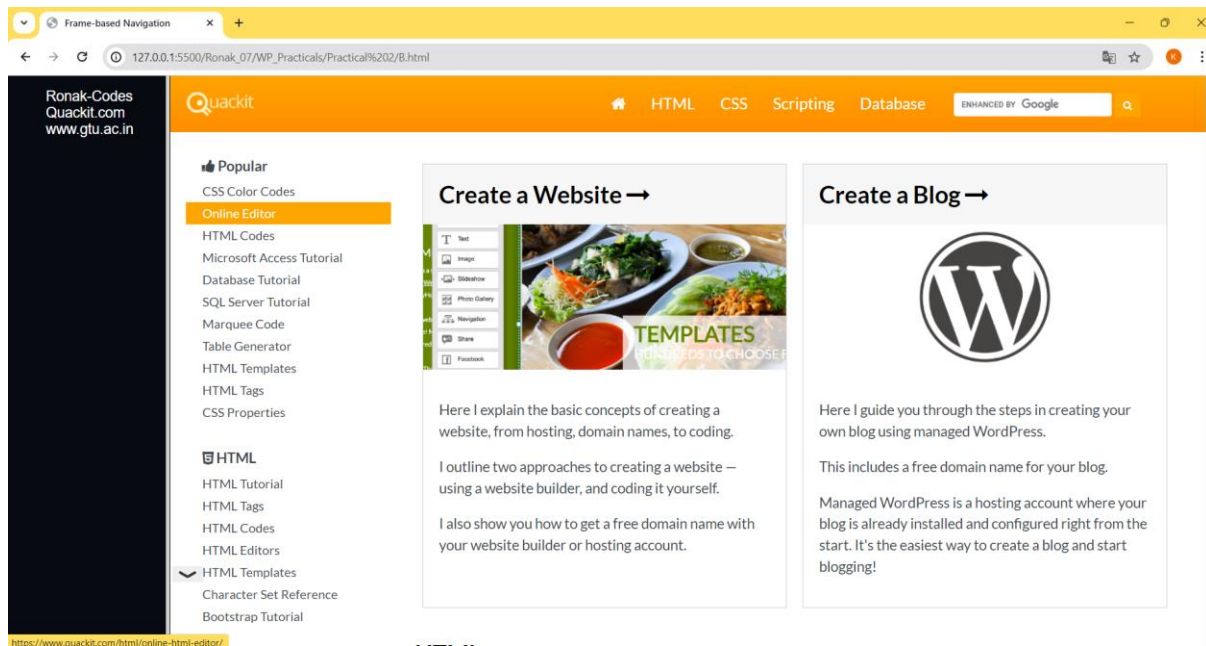
### **Navbar.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Navigation Bar</title>
</head>
<style>
  body {
    background-color: rgb(7, 10, 16);
    color: black;
  }
  ul {
    gap: 20px;
    list-style: none;
  }
  li{
    font-size: large;
    font-family: Arial, Helvetica, sans-serif;
  }
</style>
```

```
ul li:hover {
  cursor: pointer;
}

a{
  text-decoration: none;
  color: rgb(255, 255, 255);
}
a:hover{
  color: #0070d1;
}
</style>
<body>
<ul>
<li>
<a

  href="https://ronak-codes.vercel.app/"
  target="content"
>Ronak-Codes</a
>
</li>
<li>
<a href="https://www.quackit.com/" target="content">Quackit.com</a>
</li>
<li>
<a href="https://www.gtu.ac.in/" target="content">www.gtu.ac.in</a>
</li>
</ul>
</body>
</html>
```

**Output:****Page 1: Ronak-Codes****Page 2: Quackit.com**

### Page 3: [www.gtu.ac.in](http://www.gtu.ac.in)

The screenshot displays the official website of Gujarat Technological University (GTU). The header includes the university's name, logo, and accreditation status (A+ grade by NAAC). A navigation bar provides access to various sections such as About GTU, Institutes, Academics, Exam, Students, Research & Innovation, Media, Downloads, Quick Links, Unique Initiatives, and Contact Us. The main content area is divided into three columns: a 'Student Portal' with a 'LOGIN NOW' button, a 'News Corner' featuring exam schedules and guidelines, and an 'Overview' section. The 'Overview' section describes GTU as a premier academic and research institution established in 2007. A large image of the GTU campus is shown at the bottom right.

## Practical: 3

**Aim: To study about HTML Forms. a) Create a registration form using HTML. (Form must include Full Name, Email Address, Date of Birth, Address, Mobile Number, Gender, Department, Hobbies, upload your id, create password, etc)**

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h2>Registration Form</h2>

  <form action="#" method="post" enctype="multipart/form-data">
    <label for="fullname">Full Name:</label>
    <input type="text" id="fullname" name="fullname" required>

    <label for="email">Email Address:</label>
    <input type="email" id="email" name="email" required>

    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" required>

    <label for="address">Address:</label>
    <textarea id="address" name="address" required></textarea>

    <label for="mobile">Mobile Number:</label>
    <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" required>

    <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>
```

```
<label for="department">Department:</label>
<input type="text" id="department" name="department" required>

<label for="hobbies">Hobbies:</label>
<input type="text" id="hobbies" name="hobbies">

<label for="idupload">Upload your ID:</label>
<input type="file" id="idupload" name="idupload" accept=".jpg, .jpeg, .png, .pdf"
required>

<label for="password">Create Password:</label>
<input type="password" id="password" name="password" minlength="8" required>

<input type="submit" value="Submit">
</form>

</body>
</html>
```

## Styles.css

```
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
}

h2 {
    text-align: center;
    color: #333;
}

form {
    max-width: 500px;
    margin: 0 auto;
    background: #fff;
    padding: 20px;
    border-radius: 5px;
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}

label {
    font-weight: bold;
    display: block;
```

```
}

input[type="text"],
input[type="email"],
input[type="date"],
input[type="tel"],
select,
textarea,
input[type="password"] {
    width: 100%;
    padding: 10px;
    margin-bottom: 15px;
    border: 1px solid #ccc;
    border-radius: 5px;
    box-sizing: border-box;
}

input[type="file"] {
    margin-top: 10px;
}

input[type="submit"] {
    background-color: #4CAF50;
    color: white;
    padding: 12px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    width: 100%;
}

input[type="submit"]:hover {
    background-color: #45a049;
}

.error {
    color: red;
    font-style: italic;
}
```



**Output:**

### Registration Form

Full Name:

Email Address:

Date of Birth:

dd - mm - yyyy

Address:

Mobile Number:

Gender:

Select

Department:

Hobbies:

Upload your ID:

Choose File No file chosen

Create Password:

Submit

## Practical: 4

**Aim: To study about applying CSS in HTML Pages.**

**a) Write HTML code which describes following types of CSS.**

- i) Inline**
- ii) Internal**
- iii) External**

### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Practical 4</title>
    <link rel="stylesheet" href="style.css" />

    <style>
      .section2 {
        height: 35%;
        width: 100%;
        background-color: white;
      }

      .heading1 {
        text-align: center;
        color: rgb(25, 4, 74);
        font-size: 36px;
        font-weight: bolder;
        padding-top: 7%;
      }
    </style>
  </head>
  <body>
    <!-------Inline CSS----->

    <section
      style="height: 35%; width: 100%; background-color: rgb(230, 81, 0)"
    >
      <h1 class="heading3"
        style="
          text-align: center;
          color: rgb(25, 4, 74);
          font-size: 36px;
          font-weight: bolder;
          padding-top: 7%;
        >
```

```
"
>
  This Section is Styled using inline css.
</h1>
</section>
<!--Internal CSS-->

<section class="section2">
  <h1 class="heading1">This Section is Styled using Internal css.</h1>
</section>

<!--External CSS-->

<section class="section3">
  <h1 class="heading2">This Section is Styled using External css.</h1>
</section>
</body>
</html>
```

### Styles.css

```
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

html,body{
  height: 100%;
  width: 100%;
}

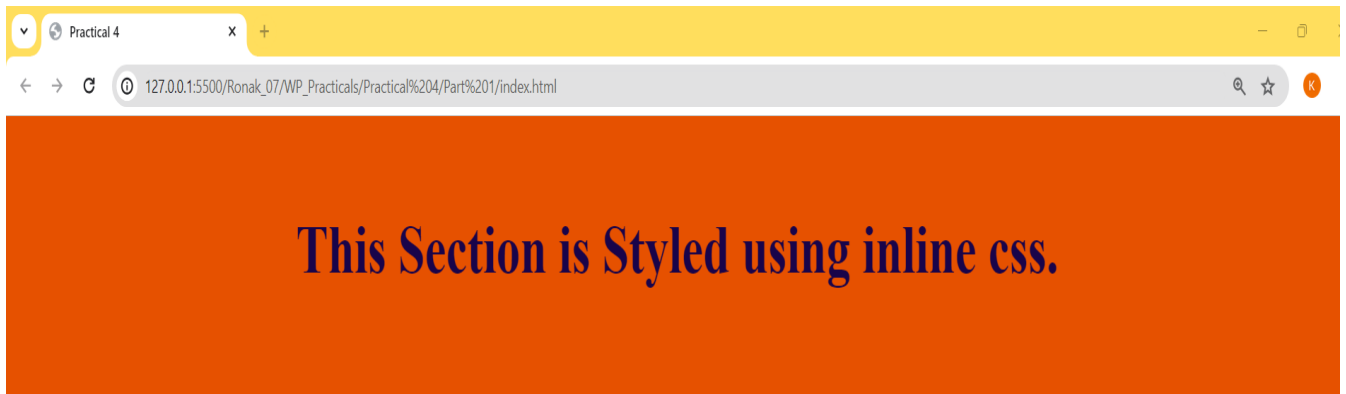
.section3 {
  height: 35%;
  width: 100%;
  background-color: rgb(0, 91, 29);
}

.heading2 {
  text-align: center;
  color: rgb(25, 4, 74);
  font-size: 36px;
  font-weight: bolder;
  padding-top: 7%;
}

.heading {
  text-align: center;
  font-size: 36px;
```

```
font-weight: bold;  
padding: 20px;  
border-radius: 10px;  
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

### Output:



**This Section is Styled using Internal css.**



**b) Write HTML code which describes following types of selectors.**

- i) Class selector**
- ii) ID selector**
- iii) Universal selector**
- iv) Group selector**
- v) Wild card Selector**

### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Practical 4 - Part 2</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <section class="section">
      <h1>This is class selector and Id selector</h1>
      <ol class="data">
        <li id="f1">Class selector</li>
        <li id="f2">ID Selector</li>
        <li id="f3">Universal Selector</li>
        <li id="f4">Group Selector</li>
        <li id="f5">Wild Card Selector</li>
      </ol>
    </section>
    <hr>
    <section class="section">
      <h1> Background Color is set using universal selector</h1>
    </section>
    <hr>
    <section class="section">
      <h1 id="h11">This is Text 1</h1>
      <h4 class="h22">This is Text 2</h4>
      <h3 id="h33">This is Text 3</h3>
    </section>
    <hr>
    <section class="section">
      <h2 class="ptr1">this is demo program</h2>
      <h2 class="txt">This is practical 5</h2>
      <h2 class="ptr2">This is practical with css</h2>
    </section>
  </body>
</html>
```

**Styles.css**

```
/* Universal Selector */
```

```
*{  
    margin: 0;  
    box-sizing: border-box;  
    background-color: rgb(175, 239, 241);  
}
```

```
html,body{  
    height: 100%;  
    width: 100%;  
}
```

```
.section{  
    height: 18%;  
    width: 100%;  
}
```

```
/* class and Id Selector */  
.data{  
    list-style-type: lower-alpha;  
}
```

```
#f1{  
    font-weight: bolder;  
    font-family: system-ui, -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen,  
    Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;  
    font-style: italic;  
}
```

```
#f2{  
    color: blue;  
}
```

```
#f3{  
    color:brown;  
}
```

```
#f4{  
    color:chocolate;  
}
```

```
#f5{  
    color: rgb(25, 25, 97);  
}
```

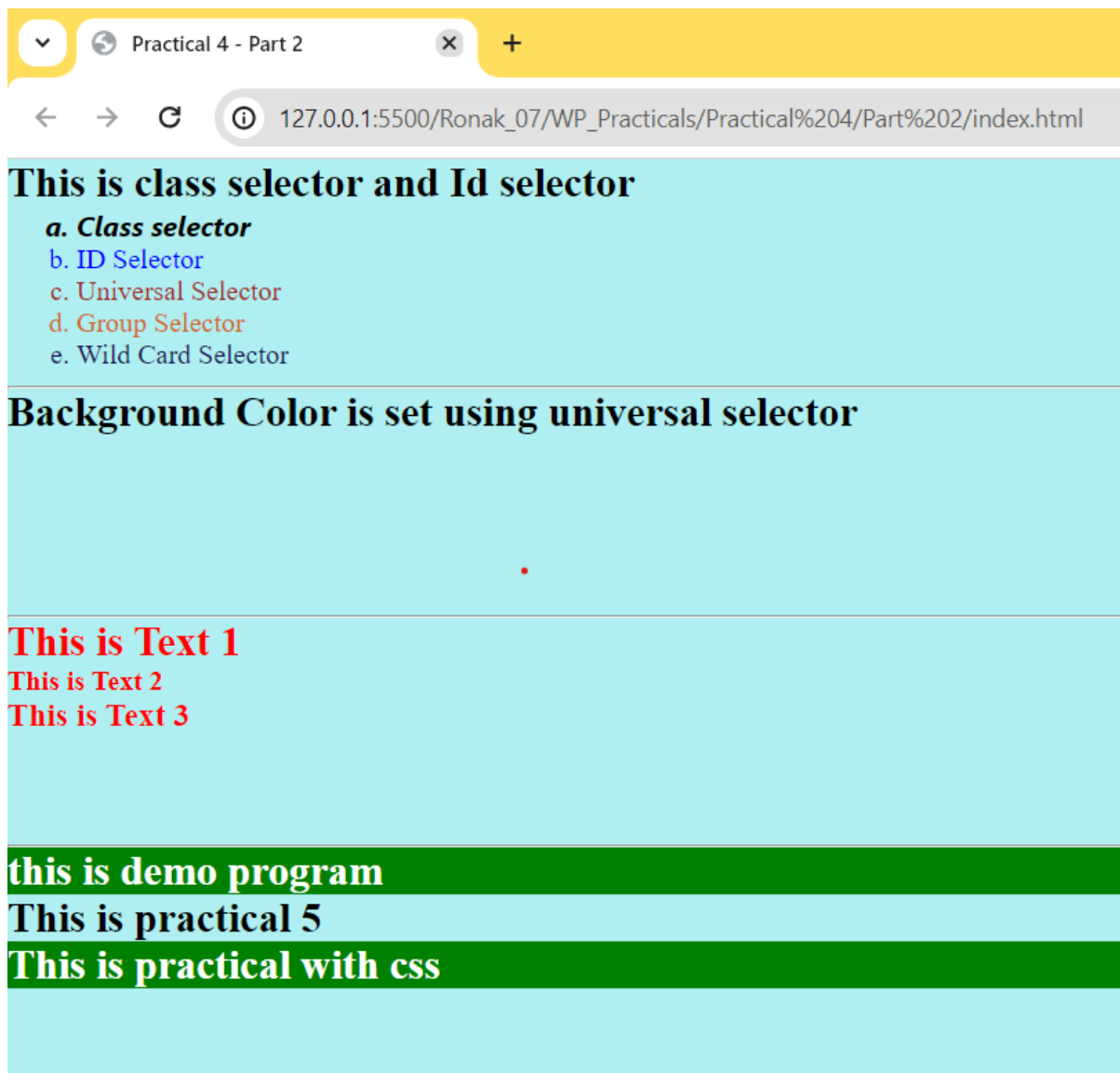
```
/* Group Selector */
```

```
#h1,h2,h3{
    color: red;
}

/* Wild card selector */

[class*="ptr"] {
    color: white;
    background-color: green;
}
```

### Output:



## Practical: 5

**Aim: To study about setting different properties of CSS.**

**a) Write HTML codes for setting different background properties using CSS.**

- i) Background color property**
- ii) Background image property**
- iii) Background attachment property**
- iv) Background attachment property**

**b) Write HTML codes for setting different border property using CSS.**

### Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="styles.css" />
    <title>Background Properties</title>
  </head>
  <body>
    <div class="background-color">
      <h1>Background color Properties</h1>
      <p>
        This is an example of different background properties set using CSS
        background color.
      </p>
    </div>

    <div class="border-properties">
      <div class="text2">
        <h1>Border Properties</h1>
        <p>This is an example of different border properties.</p>
      </div>
    </div>

    <div class="background-image">
      <div class="textdt">
        <h1>Background image Properties</h1>
        <p>
          This is an example of different background properties set using CSS
          background image.
        </p>
      </div>
    </div>
```



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

## Styles.css

```
* {
    margin: 5px 5px 5px 5px;
    padding: 5;
    box-sizing: border-box;
}

html,
body {
    width: 100%;
    height: 100%;
    overflow-x: hidden;
}

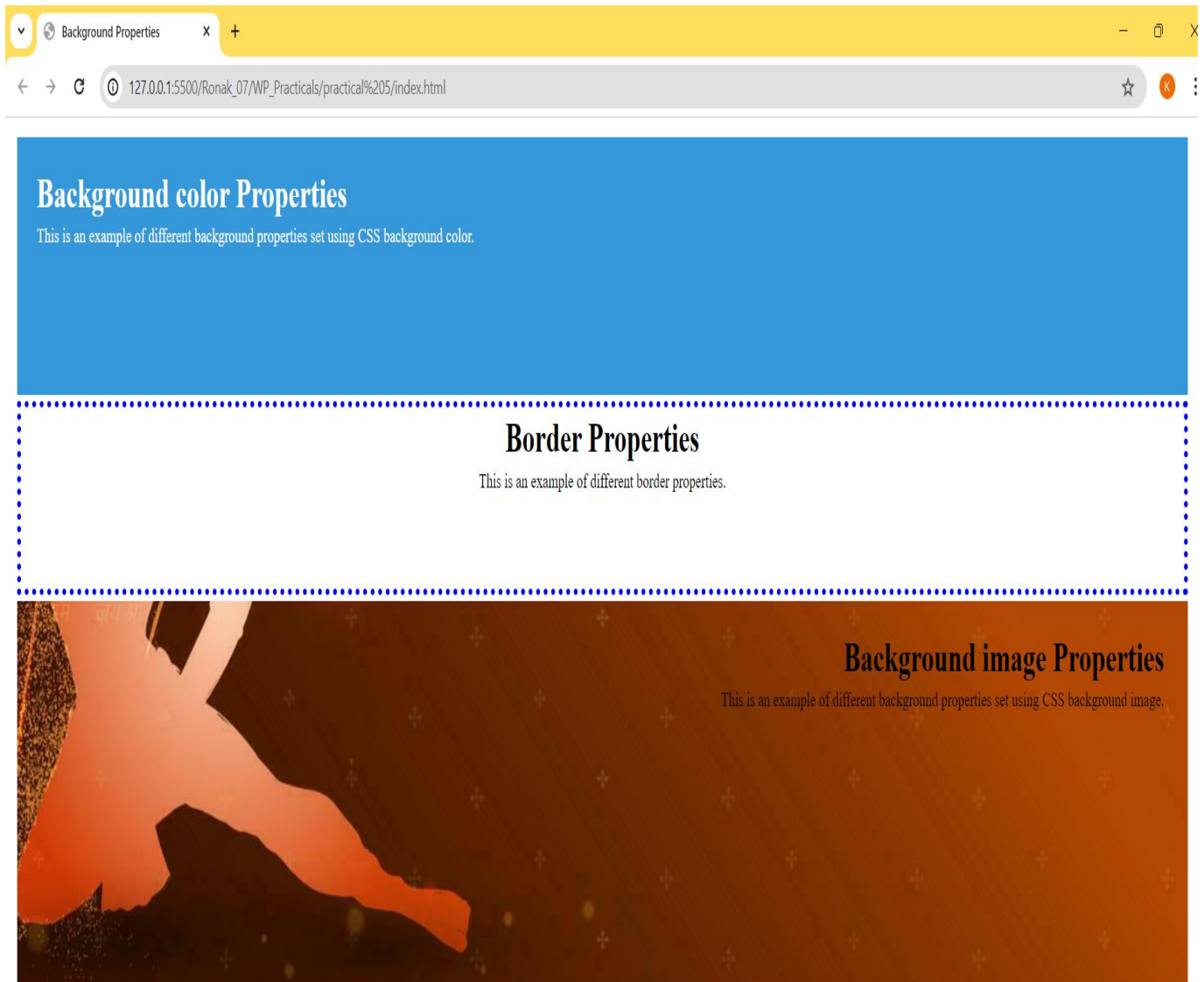
.background-color {
    width: 98%;
    height: 200px;
    padding: 20px;
    color: #ffffff; /* Text color */
    background-color: #3498db; /* Background color property */
    background-position: center; /* Background position property */
}

.background-image {
    width: 98%;
    height: 300px;
    padding: 20px;
    color: black; /* Text color */
    background-image: url("./ram2.jpg"); /* Background image property */
    background-repeat: no-repeat;
    background-size: cover;
    background-attachment: fixed; /* Background attachment property */
    background-position: center; /* Background position property */
}

.textdt {
    text-align: right;
}

.border-properties {
    width: 98%;
    height: 150px;
    border: 5px dotted blue;
}
```

```
.text2{  
    text-align: center;  
}
```

**Output:**

## Practical: 6

**Aim: To study about setting the tags of HTML page, CSS Positioning and CSS Animation**

**a) Write HTML code to demonstrate the following.**

- i) Pseudo-class**
- ii) Span**
- iii) Div**
- iv) Margin**
- v) Padding**
- vi) Float**

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 6</title>
  <link rel="stylesheet" href="static/styles.css">
</head>
<body>
  <div class="user-pseudo-class">
    <h1>Write HTML code to demonstrate the following.</h1>
    <h3>pseudo-class</h3>
    <p class="user-before">Hover over me.</p>
    <a href="https://www.students.gtu.ac.in/">Click To Browse</a>
    <br>
    <br>
    <input type="text" class="text1">
  </div>
  <div class="sec2">
    <h1>This is the Example of <span>span</span> Tag.</h1>
  </div>

  <div class="page3">
    <h1>Margin</h1>
    <div class="text">margin demonstration</div>
  </div>
</body>
</html>
```

### Styles.css

```
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
```

```
}

/* pseudo class */

.user-pseudo-class{
    height: 50%;
    width: 100%;
    background-color: aqua;
}

.user-pseudo-class h1{
    font-size: 36px;
}

.user-pseudo-class h3{
    font-size: 18px;
}

.user-before{
    font-size: 24px;
}

.user-pseudo-class a{
    color: blue;
    font-size: 26px;
}

.user-pseudo-class a:visited{
    color: red;
}

.user-before:hover{
    cursor: pointer;
    color: red;
}

.user-before::before{
    content: "This is :: before ";
}

.text1{
    font-size: 22px;
    background-color:blueviolet;
}

.text1:focus{
    background-color: blue;
}
```

```
/* class 2 */

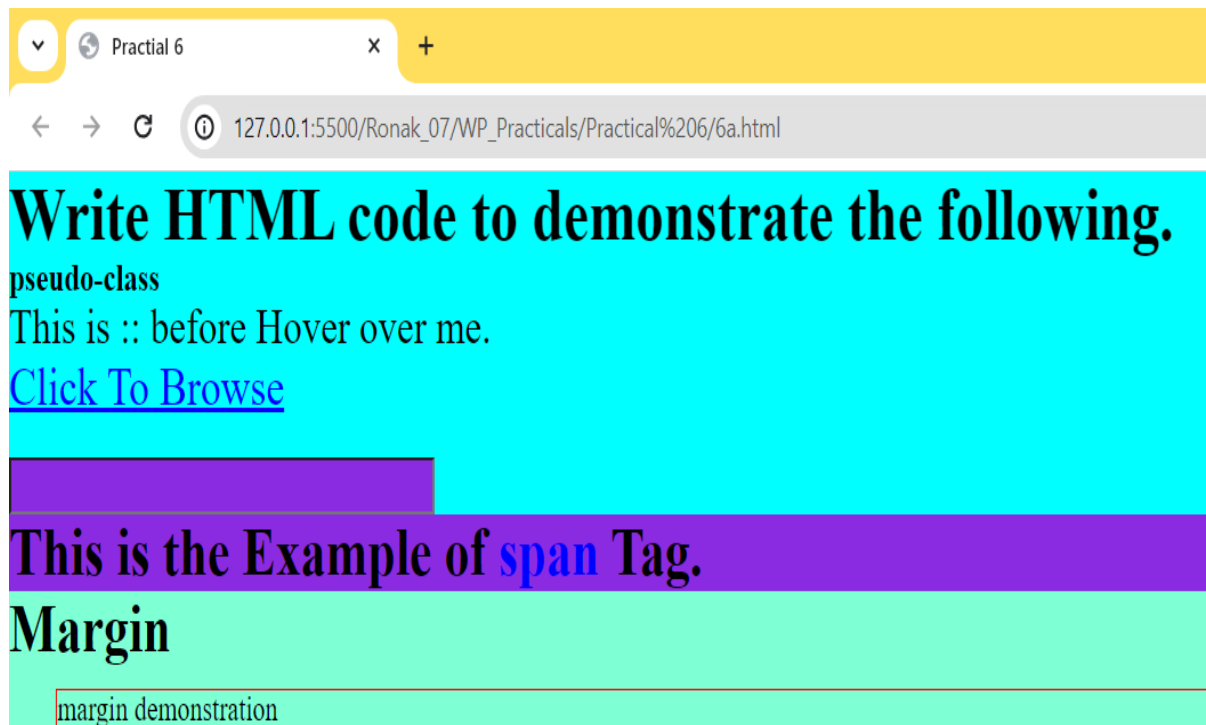
.sec2{
    height: 50%;
    background-color: blueviolet;
}

.sec2 span{
    color: blue;
}

.page3{
    height: 50%;
    width: 100%;
    background-color: aquamarine;
}

.text{
    border: 1px solid red;
    margin-left: 30px;
    margin-top: 10px;
}
```

### Output:



**b) Write code to perform CSS positioning.**

- i) Fix**
- ii) Absolute**
- iii) Absolute and auto**
- iv) Relative-absolute**
- v) Absolute-relative**
- vi) Relative-relative**
- vii) Absolute-absolute**
- viii) Relative**

**Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CSS Positioning Examples</title>
<style>
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
body,html{
    height: 100%;
    width: 100%;
}

.container {
    width: 100%;
    height: 100%;
    border: 2px solid black;
    position: relative; /* This is used in all examples */
}

.fix {
    background-color: lightblue;
    width: 100px;
    height: 100px;
    position: fixed;
    top: 10px;
    left: 10px;
}

.absolute {
    background-color: lightgreen;
    width: 100px;
```

```
height: 100px;
position: absolute;
top: 10px;
left: 10px;
}

.absolute-auto {
background-color: lightcoral;
width: auto;
height: auto;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
}

.relative-absolute {
background-color: lightsalmon;
width: 100px;
height: 100px;
position: absolute;
top: 10px;
left: 10px;
}

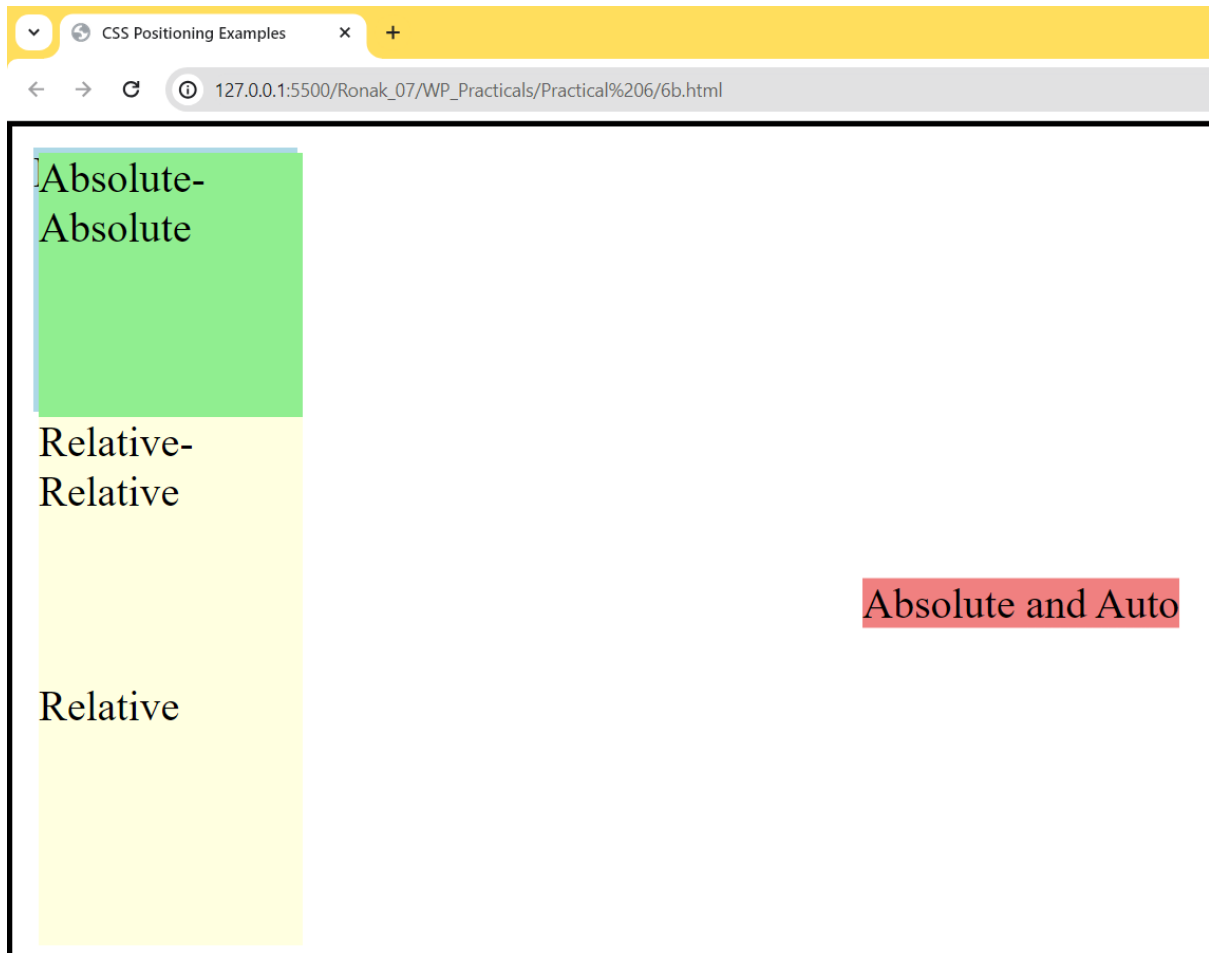
.relative {
background-color: lightyellow;
width: 100px;
height: 100px;
position: relative;
top: 10px;
left: 10px;
}
</style>
</head>
<body>

<div class="container">
  <div class="fix">Fix</div>
  <div class="absolute">Absolute</div>
  <div class="absolute-auto">Absolute and Auto</div>
  <div class="relative-absolute">Relative-Absolute</div>
  <div class="relative">Absolute-Relative</div>
  <div class="relative">Relative-Relative</div>
  <div class="absolute">Absolute-Absolute</div>
  <div class="relative">Relative</div>
</div>
```

```
</body>
```

```
</html>
```

## Output:





**c) Write a code to show CSS animation.**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Multi-shape Animation</title>
<style>
  body {
    margin: 0;
    padding: 0;
    overflow: hidden;
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
    background-color: #f0f0f0;
  }

  .container {
    width: 100vw;
    height: 100vh;
    position: relative;
    overflow: hidden;
  }

  .shape {
    position: absolute;
    animation: moveAndColor 5s ease-in-out infinite alternate;
  }

  .circle {
    width: 50px;
    height: 50px;
    background-color: #3498db;
    border-radius: 50%;
  }

  .square {
    width: 70px;
    height: 70px;
    background-color: #e74c3c;
  }

  .triangle {
    width: 0;
    height: 0;
```

```
border-left: 35px solid transparent;  
border-right: 35px solid transparent;  
border-bottom: 70px solid #9b59b6;  
}
```

```
.star {  
width: 0;  
height: 0;  
border-left: 70px solid transparent;  
border-right: 70px solid transparent;  
border-bottom: 140px solid #f39c12;  
position: absolute;  
transform: rotate(35deg);  
}
```

```
.heart {  
width: 70px;  
height: 70px;  
background-color: #e74c3c;  
position: relative;  
transform: rotate(45deg);  
}
```

```
.pentagon {  
width: 0;  
height: 0;  
border-left: 35px solid transparent;  
border-right: 35px solid transparent;  
border-bottom: 70px solid #1abc9c;  
position: absolute;  
transform: rotate(72deg);  
}
```

```
.octagon {  
width: 100px;  
height: 100px;  
background-color: #3498db;  
position: relative;  
transform: rotate(22.5deg);  
}
```

```
.hexagon {  
width: 100px;  
height: 70px;  
background-color: #9b59b6;  
position: relative;  
}
```

```

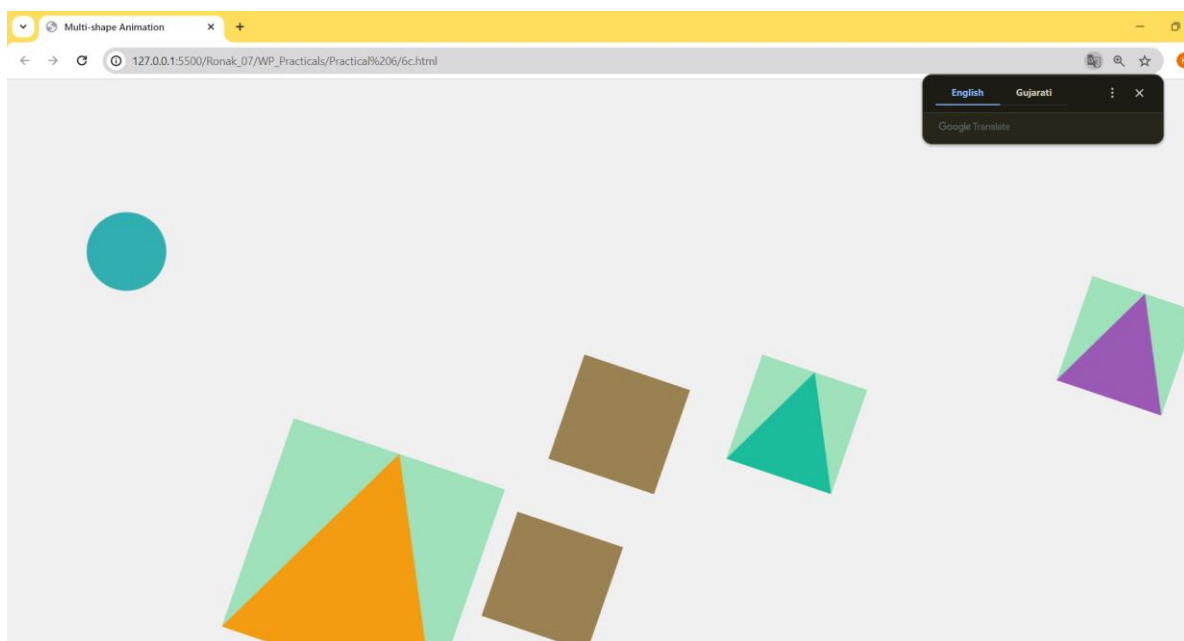
@keyframes moveAndColor {
  0%, 100% {
    transform: translateY(0) rotate(0);
  }
  50% {
    transform: translateY(90vh) rotate(180deg);
  }
  25%, 75% {
    background-color: #2ecc71;
  }
}
</style>
</head>
<body>

<div class="container">
  <div class="shape circle" style="top: 50px; left: 50px;"></div>
  <div class="shape square" style="top: 150px; left: calc(50% - 35px);"></div>
  <div class="shape triangle" style="top: 100px; left: calc(100% - 100px);"></div>
  <div class="shape star" style="top: 200px; left: 20%;"></div>
  <div class="shape heart" style="top: 250px; left: 40%;"></div>
  <div class="shape pentagon" style="top: 150px; left: 60%;"></div>
  <div class="shape octagon" style="top: 300px; left: 80%;"></div>
  <div class="shape hexagon" style="top: 200px; left: calc(50% - 50px);"></div>
</div>

</body>
</html>

```

## Output:



## Practical: 7

**AIM: To study about basics of JavaScript.**

**a) Write JavaScript code to perform arithmetic operations.**

### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 7</title>
  <style>
    body {
      margin: 0;
      padding: 0;
      height: 100vh;
      display: flex;
      justify-content: center;
      align-items: center;
      background: linear-gradient(to bottom, #33ccff 0%, #ff99cc 100%); /* Blue gradient
background */
      font-family: Arial, sans-serif;
      color: #333; /* Text color */
    }
    .container {
      background: linear-gradient(to bottom, #33ccff 0%, #ff99cc 100%); /* Transparent
card with same gradient */
      padding: 60px;
      border-radius: 20px;
      box-shadow: 0px 0px 20px rgba(0, 0, 0, 0.2);
      width: 90%;
      max-width: 800px; /* Maximum width of the card */
      display: flex;
      flex-direction: column;
      position: relative;
```

```
}  
.input-section {  
    margin-bottom: 20px;  
}  
.divider {  
    width: 100%;  
    height: 2px;  
    background-color: rgba(52, 8, 39, 0.813); /* Divider color */  
    margin: 20px 0; /* Adjusting gap */  
}  
input[type="text"], input[type="button"] {  
    width: calc(100% - 40px); /* Adjusting input width */  
    padding: 10px;  
    border: none;  
    border-radius: 5px;  
    box-sizing: border-box;  
    font-size: 16px;  
    background-color: rgba(255, 255, 255, 0.5); /* Transparent color for textboxes */  
    margin-bottom: 20px; /* Adjusting gap */  
}  
input[type="button"] {  
    background-color: #ff99cc; /* Button background color */  
    color: #333; /* Button text color */  
    cursor: pointer;  
    padding: 10px 20px;  
    border-radius: 5px;  
    font-size: 16px;  
    transition: background-color 0.3s;  
}  
input[type="button"]:hover {  
    background-color: #ff66b3; /* Button hover background color */  
}  
h2 {  
    font-size: 24px; /* Increased font size */
```

```
margin-bottom: 30px; /* Increased margin */
align-self: center; /* Aligning to the center */
color: #fff; /* Stylish heading color */
text-shadow: 2px 2px 5px rgba(0, 0, 0, 0.5); /* Adding text shadow for style */
}
label {
    font-size: 16px;
}
#result {
    padding: 10px;
    background: rgba(255, 255, 255, 0.1); /* Transparent background for result */
    border-radius: 5px;
    display: none; /* Initially hidden */
}
</style>
</head>
<body>
    <div class="container">
        <h2>Calculator</h2> <!-- Stylish and centered heading -->
        <div class="input-section">
            <label for="firstnum">Enter the first number:</label>
            <input type="text" name="firstnum" id="firstnum">
            <br>
            <label for="secondnum">Enter the second number:</label>
            <input type="text" name="secondnum" id="secondnum">
            <br>
            <input type="button" value="calculate" onclick="calculateValues()">
            <input type="button" value="clear" onclick="clearValues()">
        </div>
        <div class="divider"></div>
        <h2 id="resultHeading">Result is :</h2>
        <div id="result"></div>
    </div>
```

```
<script>
function calculateValues(){
    var firstnumber = Number(document.getElementById("firstnum").value);
    var secondnumber = Number(document.getElementById("secondnum").value);
    var Addition = firstnumber + secondnumber;
    var Subtraction = firstnumber - secondnumber;
    var Division = firstnumber / secondnumber;
    var Multiplication = firstnumber * secondnumber;
    var Increment = firstnumber += 1;
    var Decrement = secondnumber -= 1;

    // Displaying the result section
    document.getElementById("resultHeading").style.display = "block";
    document.getElementById("result").style.display = "block";

    document.getElementById("result").innerText = "Addition: " + Addition +
"\nSubtraction: " + Subtraction + "\nDivision: " + Division + "\nMultiplication: " +
Multiplication + "\nIncrement: " + Increment + "\nDecrement: " + Decrement;
}

function clearValues(){
    document.getElementById("firstnum").value = "";
    document.getElementById("secondnum").value = "";
    document.getElementById("resultHeading").style.display = "none"; // Hiding the
result section
    document.getElementById("result").style.display = "none"; // Hiding the result
section
}
</script>
</body>
</html>
```

**Output:**

**Calculator**

Enter the first number:  
15

Enter the second number:  
11

calculate

clear

---

**Result is :**

Addition: 26  
Subtraction: 4  
Division: 1.3636363636363635  
Multiplication: 165  
Increment: 16  
Decrement: 10



**b) Write JavaScript code to check if the number is even or odd.****CODE:****Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Even or Odd Checker</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>Even or Odd Checker</h1>
    <input type="number" id="numberInput" placeholder="Enter a number">
    <button onclick="checkEvenOrOdd()">Check</button>
    <p id="result"></p>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

**Styles.css**

```
body {
  font-family: Arial, sans-serif;
  background-color: #74daa4;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}
```

```
.container {  
  text-align: center;  
  background-color: #0077d8;  
  padding: 20px;  
  border-radius: 8px;  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
input[type="number"] {  
  width: 200px;  
  padding: 10px;  
  margin-bottom: 10px;  
  border: 1px solid #ccc;  
  border-radius: 4px;  
  font-size: 16px;  
}
```

```
button {  
  padding: 10px 20px;  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  border-radius: 4px;  
  cursor: pointer;  
  font-size: 16px;  
}
```

```
button:hover {  
  background-color: #45a049;  
}
```

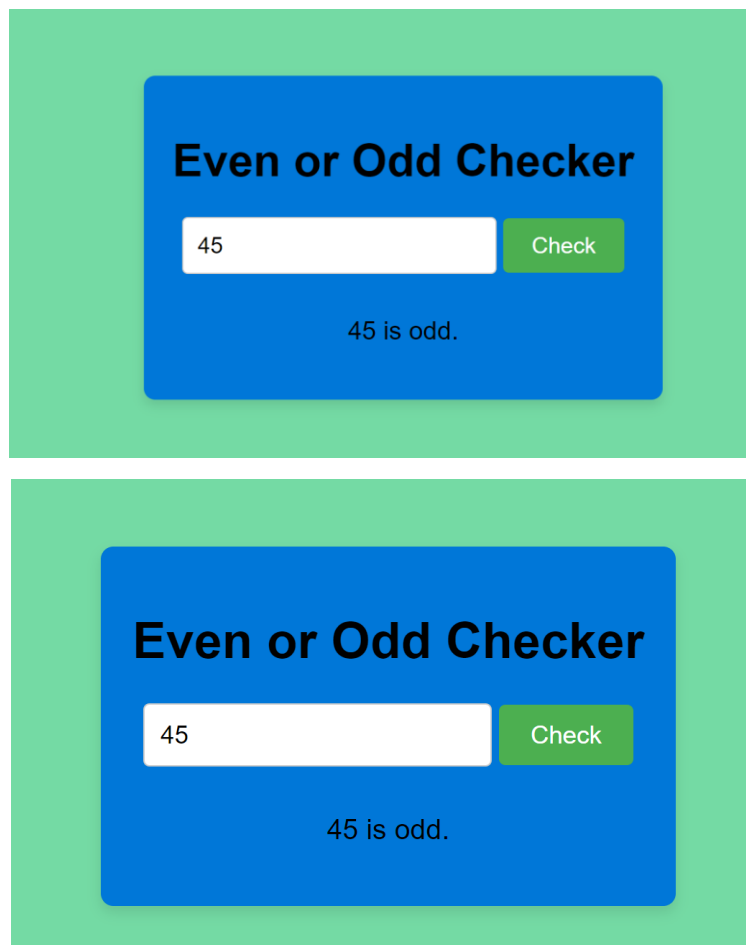
```
#result {  
  margin-top: 20px;  
  font-size: 18px;  
}
```

```
}
```

### Script.js

```
function checkEvenOrOdd() {  
    var numberInput = document.getElementById('numberInput').value;  
    var resultElement = document.getElementById('result');  
  
    if (numberInput % 2 === 0) {  
        resultElement.innerText = numberInput + ' is even.';  
    } else {  
        resultElement.innerText = numberInput + ' is odd.';  
    }  
}
```

### Output:



**c) Write JavaScript code to which takes input n and displays the first n odd number, divisible by 7.**

### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Odd Numbers Divisible by 7</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>Odd Numbers Divisible by 7</h1>
    <input type="number" id="numberInput" placeholder="Enter n">
    <button onclick="displayNumbers()">Display</button>
    <ul id="numbersList"></ul>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

### **Styles.css**

```
body {
  font-family: Arial, sans-serif;
  background-color: #06a8d4;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}
```

```
.container {  
  text-align: center;  
  background-color: #a1d0ff;  
  padding: 20px;  
  border-radius: 8px;  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
input[type="number"] {  
  width: 200px;  
  padding: 10px;  
  margin-bottom: 10px;  
  border: 1px solid #ced4da;  
  border-radius: 4px;  
}
```

```
button {  
  padding: 10px 20px;  
  background-color: #b90d0d;  
  color: white;  
  border: none;  
  border-radius: 4px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #130913;  
}
```

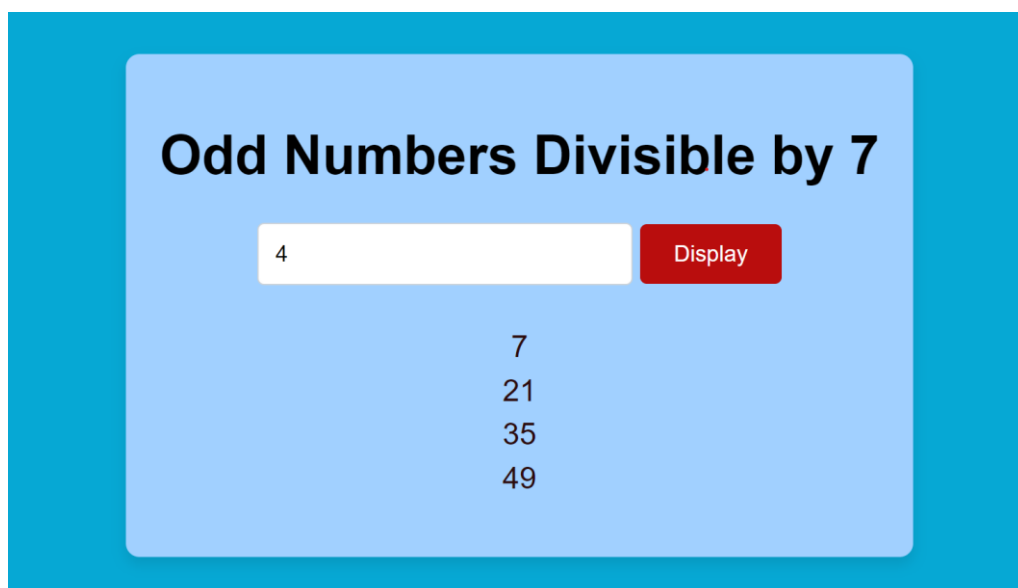
```
#numbersList {  
  list-style-type: none;  
  padding: 0;  
}
```

```
#numbersList li {  
  margin-bottom: 5px;  
  font-size: 18px;  
  color: #2c0a0b;  
}
```

### Script.js

```
function displayNumbers() {  
  var n = document.getElementById('numberInput').value;  
  var numbersList = document.getElementById('numbersList');  
  numbersList.innerHTML = ""; // Clear previous list  
  
  for (var i = 1; n > 0; i += 2) {  
    if (i % 7 === 0) {  
      var listItem = document.createElement('li');  
      listItem.textContent = i;  
      numbersList.appendChild(listItem);  
      n--;  
    }  
  }  
}
```

### Output:



**d) Write JavaScript code to perform various JavaScript Validations (Numeric, Password matching and Email validation).**

**Code:**

**Index.html**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>JavaScript Validation</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="container">

        <h2 class="title">JavaScript Validation</h2>

        <form action="#" method="post" onsubmit="return validateForm()">

            <label class="label" for="number">Enter a Number Between 1 and 100:</label>

            <br>

            <input class="inputField" type="text" id="number" required>

            <br><br>

            <label class="label" for="email">Enter Your Email Address</label>

            <br>

            <input class="inputField" type="email" id="email" name="email" required>

            <br><br>

            <label class="label" for="password">Enter Password:</label>

            <br>

            <input class="inputField" type="password" id="password" name="password"

required>

            <br><br>

            <input class="submitButton" type="submit" value="Submit">

            <input class="clearButton" type="button" value="Clear" onclick="clearValues()">

            <div id="errorMessages" class="errorMessages"></div>

        </form>

    </div>
```

```
<script src="script.js"></script>
</body>
</html>
```

## **Styles.css**

```
body {
    font-family: Arial, sans-serif;
    background-color: #7c3fe6;
    margin: 0;
}

.container {
    background-color: #d4cedc;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    padding: 20px;
    max-width: 800px;
    margin: 20px auto;
}

.title {
    color: #007bff;
}

.label {
    color: #333;
}

.inputField {
    width: 80%;
    padding: 10px;
    margin-bottom: 10px;
    border: 1px solid #ced4da;
    border-radius: 4px;
```



```
}

.submitButton {
    padding: 10px 20px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

.clearButton {
    padding: 10px 20px;
    background-color: #6c757d;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

.clearButton:hover {
    background-color: #5a6268;
}

.errorMessages {
    color: rgb(179, 17, 17);
    font-weight: bolder;
    margin-top: 10px;
}
```

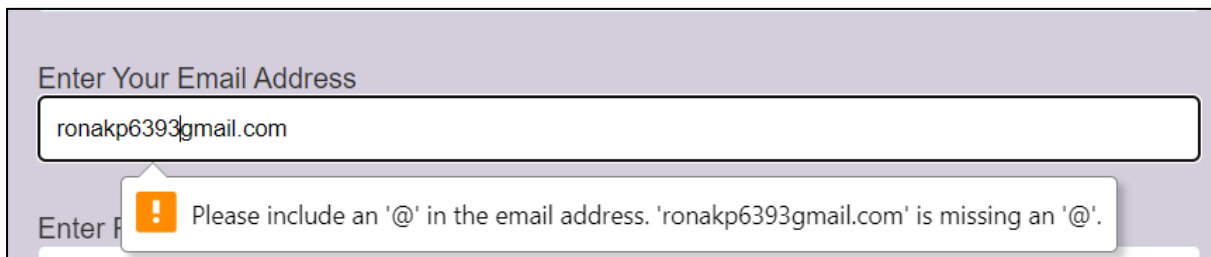
**Script.js**

```
function validateForm() {  
    var number = document.getElementById("number").value;  
    var email = document.getElementById("email").value;  
    var password = document.getElementById("password").value;  
    var errorMessages = document.getElementById("errorMessages");  
    var error = "";  
  
    if (isNaN(number) || number < 1 || number > 100) {  
        error += "Please enter a valid number between 1 and 100.<br>";  
    }  
  
    // Validate email  
    var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
    if (!emailRegex.test(email)) {  
        error += "Please enter a valid email address.<br>";  
    }  
  
    // Validate password  
    var passwordRegex = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{6,}$/;  
    if (!passwordRegex.test(password)) {  
        error += "Password must contain at least one uppercase letter, one lowercase letter, one  
number, one special character, and be at least 6 characters long.<br>";  
    }  
  
    // Display error messages  
    errorMessages.innerHTML = error;  
  
    // Display error or success message  
    if (error !== "") {  
        return false; // Prevent form submission  
    } else {  
        alert("Form is valid!");  
    }  
}
```


```
        return true; // Allow form submission
    }
}

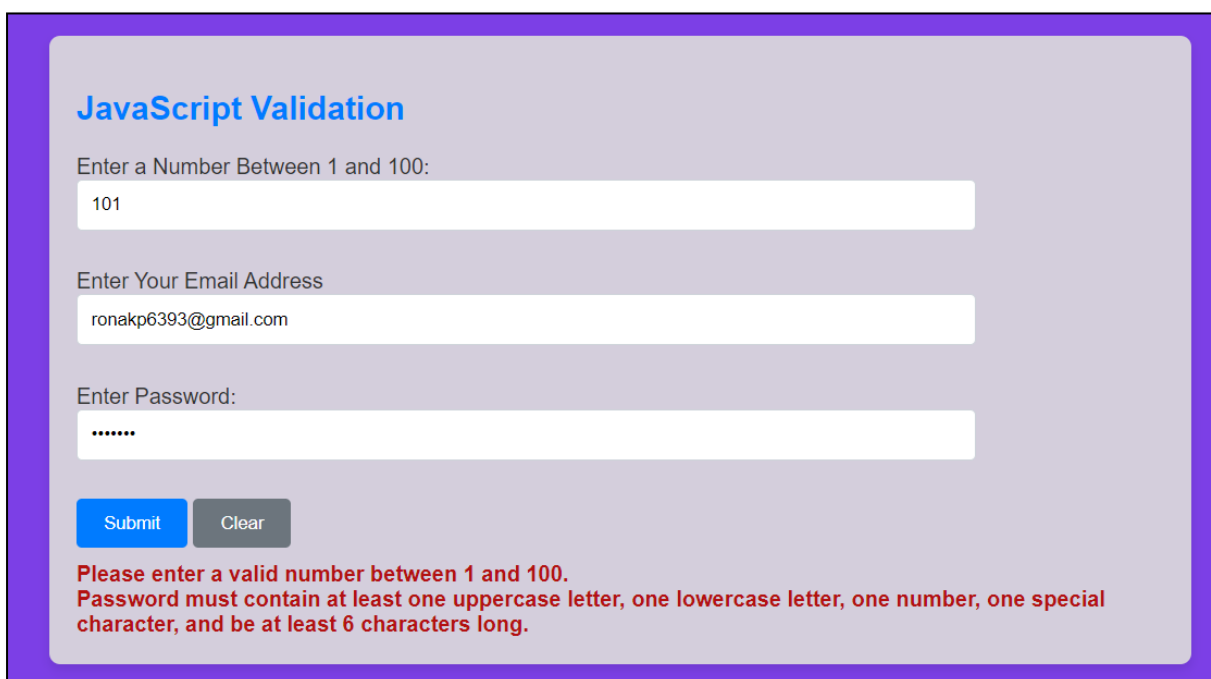
function clearValues() {
    document.getElementById("number").value = "";
    document.getElementById("email").value = "";
    document.getElementById("password").value = "";
    document.getElementById("errorMessages").innerHTML = ""; // Clear error messages
}
```

### Output:



Enter Your Email Address

Enter P  Please include an '@' in the email address. 'ronakp6393gmail.com' is missing an '@'.



**JavaScript Validation**

Enter a Number Between 1 and 100:

Enter Your Email Address

Enter Password:

Please enter a valid number between 1 and 100.  
Password must contain at least one uppercase letter, one lowercase letter, one number, one special character, and be at least 6 characters long.

The image shows a web browser window with a form titled "JavaScript Validation". A modal dialog box is displayed in the center, showing a success message: "127.0.0.1:5500 says Form is valid!" with an "OK" button. The form itself has three input fields: "Enter a Number Between 1 and 100:" with the value "007", "Enter Your Email Address" with the value "ronakp6393@gmail.com", and "Enter Password:" with masked characters "\*\*\*\*\*". Below the inputs are "Submit" and "Clear" buttons. At the bottom, there are two lines of red text: "Please enter a valid number between 1 and 100." and "Password must contain at least one uppercase letter, one lowercase letter, one number, one special character, and be at least 6 characters long."

JavaScript Validation

Enter a Number Between 1 and 100:

007

Enter Your Email Address

ronakp6393@gmail.com

Enter Password:

\*\*\*\*\*

Submit Clear

Please enter a valid number between 1 and 100.  
Password must contain at least one uppercase letter, one lowercase letter, one number, one special character, and be at least 6 characters long.

**e) Write a JavaScript for following scenario.**

**i) Take a button**

**ii) When we click on button it prompt dialog box.**

**iii) In the dialog box there is one textbox for entering your enrollment number.**

**iv) Also, this dialog box has two buttons: Ok and Cancel. If the user clicks the Ok button, the window prompt will return the entered value from the textbox. If the user clicks the Cancel button, the window method prompt returns null**

**CODE:**

### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 7 E</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Enter Your Enrollment Number</h2>
    <button onclick="showPrompt()">Enter Enrollment Number</button>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

### **Styles.css**

```
body {
  font-family: Arial, sans-serif;
  background-color: #ffffff;
  margin: 0;
```

```
}

.container {
    text-align: center;
    padding: 20px;
}

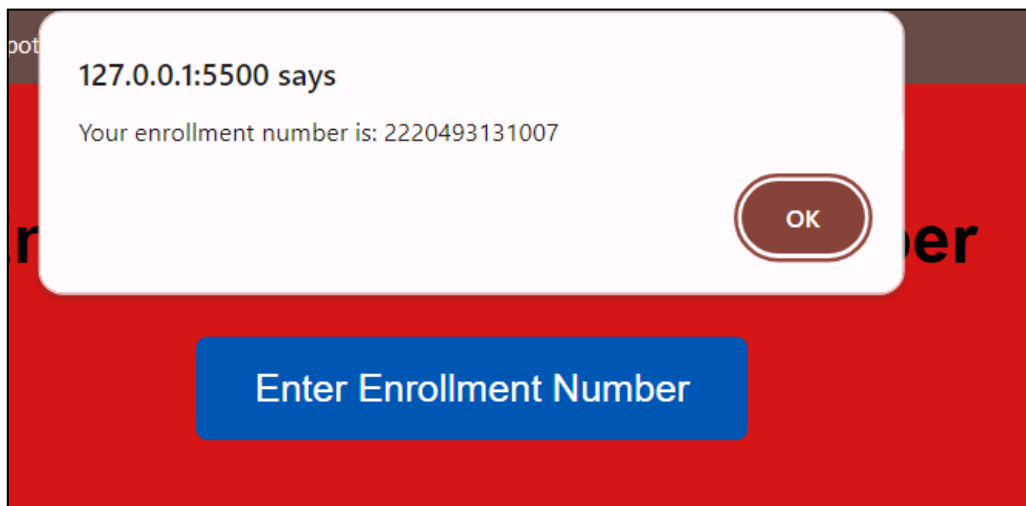
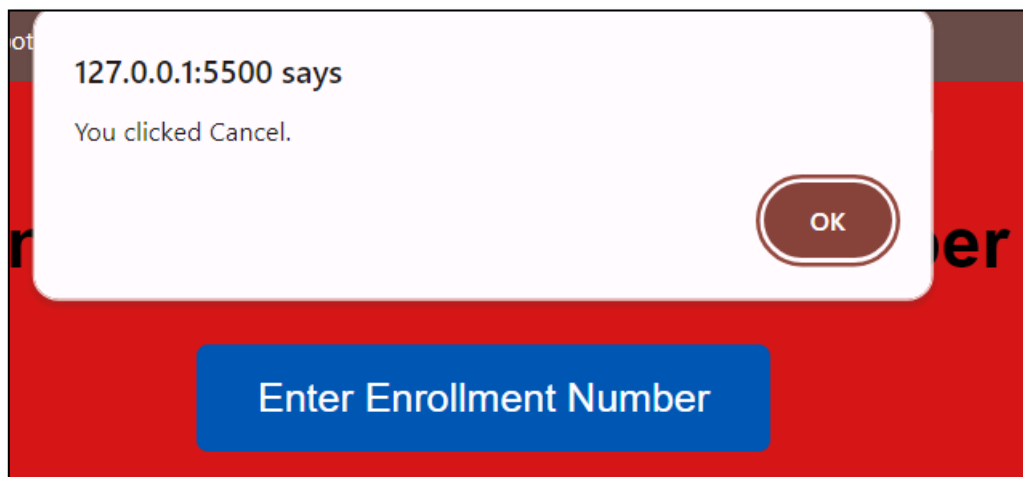
button {
    padding: 10px 20px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

button:hover {
    background-color: #0056b3;
}
```

### **Script.js**

```
function showPrompt() {
    var enrollmentNumber = prompt("Enter your enrollment number:");

    if (enrollmentNumber === null) {
        alert("You clicked Cancel.");
    } else if (enrollmentNumber.trim() === "") {
        alert("Please enter your enrollment number.");
    } else {
        alert("Your enrollment number is: " + enrollmentNumber);
    }
}
```

**Output:**

## Practical :8

**Aim: To study about JavaScript DOM.**

- a) Write a JavaScript function to get the values of Full name of the user from registration form created in Practical-3.**

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h2>Registration Form</h2>

  <form action="#" method="post" enctype="multipart/form-data">
    <label for="fullname">Full Name:</label>
    <input type="text" id="fullname" name="fullname" required>

    <label for="email">Email Address:</label>
    <input type="email" id="email" name="email" required>

    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" required>

    <label for="address">Address:</label>
    <textarea id="address" name="address" required></textarea>

    <label for="mobile">Mobile Number:</label>
    <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" required>

    <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>

<label for="department">Department:</label>
<input type="text" id="department" name="department" required>

<label for="hobbies">Hobbies:</label>
<input type="text" id="hobbies" name="hobbies">

<label for="idupload">Upload your ID:</label>
<input type="file" id="idupload" name="idupload" accept=".jpg, .jpeg, .png, .pdf"
required>

<label for="password">Create Password:</label>
<input type="password" id="password" name="password" minlength="8" required>

<input type="submit" value="Submit" onclick="getFullName()">
</form>

<script src="script.js"></script>
</body>
</html>
```

## Styles.css

```
body {
    font-family: Arial, sans-serif;
    background-color: #f8f9fa;
    margin: 0;
}
```

```
h2 {
```

```
text-align: center;
color: #007bff;
}

form {
  max-width: 400px;
  margin: 20px auto;
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}

label {
  display: block;
  margin-bottom: 5px;
  color: #333;
}

input[type="text"],
input[type="email"],
input[type="date"],
input[type="tel"],
input[type="password"],
textarea,
select {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #ced4da;
  border-radius: 4px;
}

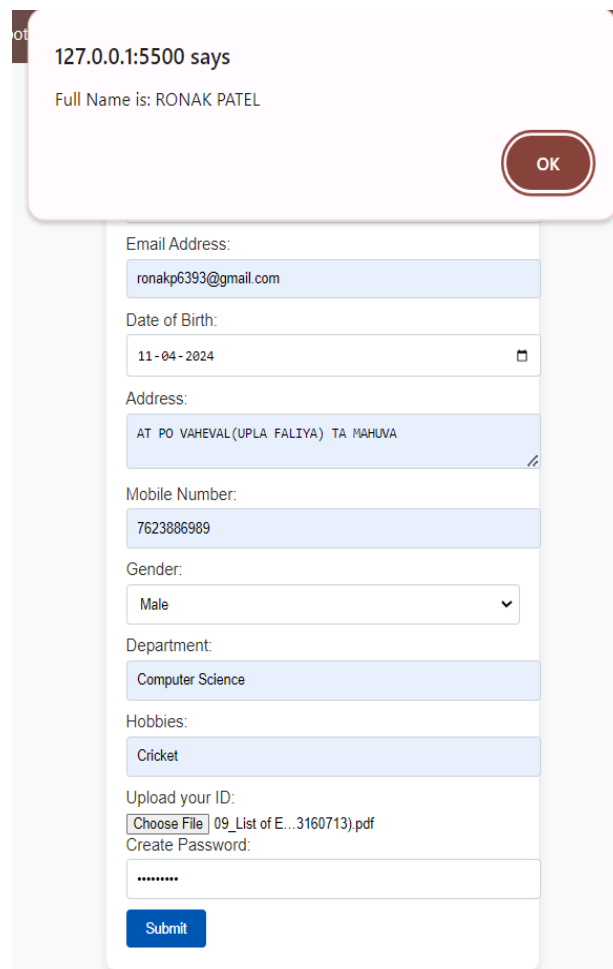
input[type="submit"] {
```

```
padding: 10px 20px;
background-color: #007bff;
color: white;
border: none;
border-radius: 4px;
cursor: pointer;
}
input[type="submit"]:hover {
    background-color: #0056b3;
}
```

### Script.js

```
function getFullName() {
    var fullName = document.getElementById("fullname").value;
    alert("Full Name is: " + fullName);
}
```

### Output:



The screenshot shows a web form with a light blue background. At the top, a pink alert box displays the message "127.0.0.1:5500 says" and "Full Name is: RONAK PATEL" with an "OK" button. Below the alert, the form contains several input fields: "Email Address:" with the value "ronakp6393@gmail.com", "Date of Birth:" with the value "11-04-2024", "Address:" with the value "AT PO VAHEVAL (UPLA FALIYA) TA MAHUVA", "Mobile Number:" with the value "7623886989", "Gender:" with a dropdown menu set to "Male", "Department:" with the value "Computer Science", "Hobbies:" with the value "Cricket", "Upload your ID:" with a file selection button and the text "09\_List of E...3160713).pdf", and "Create Password:" with a password field containing eight dots. A blue "Submit" button is at the bottom of the form.

**b) Write a JavaScript DOM program to remove a department name from a drop-down list used for Department in registration form created in Practical-3.**

**Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h2>Registration Form</h2>

  <form action="#" method="post" enctype="multipart/form-data">
    <label for="fullname">Full Name:</label>
    <input type="text" id="fullname" name="fullname" required>

    <label for="email">Email Address:</label>
    <input type="email" id="email" name="email" required>

    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" required>

    <label for="address">Address:</label>
    <textarea id="address" name="address" required></textarea>

    <label for="mobile">Mobile Number:</label>
    <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" required>

    <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>

    <label for="department">Department:</label>
    <select id="department" name="department" required>
      <option value="">Select</option>
      <option value="Chemical">Chemical</option>
```

```
<option value="CSE">CSE</option>
<option value="Electrical">Electrical</option>
<option value="Civil">Civil</option>
<option value="Mechanical">Mechanical</option>
</select>

<label for="hobbies">Hobbies:</label>
<input type="text" id="hobbies" name="hobbies">

<label for="idupload">Upload your ID:</label>
<input type="file" id="idupload" name="idupload" accept=".jpg, .jpeg, .png, .pdf"
required>

<label for="password">Create Password:</label>
<input type="password" id="password" name="password" minlength="8" required>

<input type="submit" value="Submit" onclick="removeDepartment()">
</form>

<script src="script.js"></script>
</body>
</html>
```

## Styles.css

```
body {
    font-family: Arial, sans-serif;
    background-color: #f8f9fa;
    margin: 0;
}

h2 {
    text-align: center;
    color: #007bff;
}

form {
    max-width: 400px;
    margin: 20px auto;
    background-color: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}
```

```
label {
    display: block;
    margin-bottom: 5px;
    color: #333;
}

input[type="text"],
input[type="email"],
input[type="date"],
input[type="tel"],
input[type="password"],
textarea,
select {
    width: 100%;
    padding: 10px;
    margin-bottom: 10px;
    border: 1px solid #ced4da;
    border-radius: 4px;
}

input[type="submit"] {
    padding: 10px 20px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

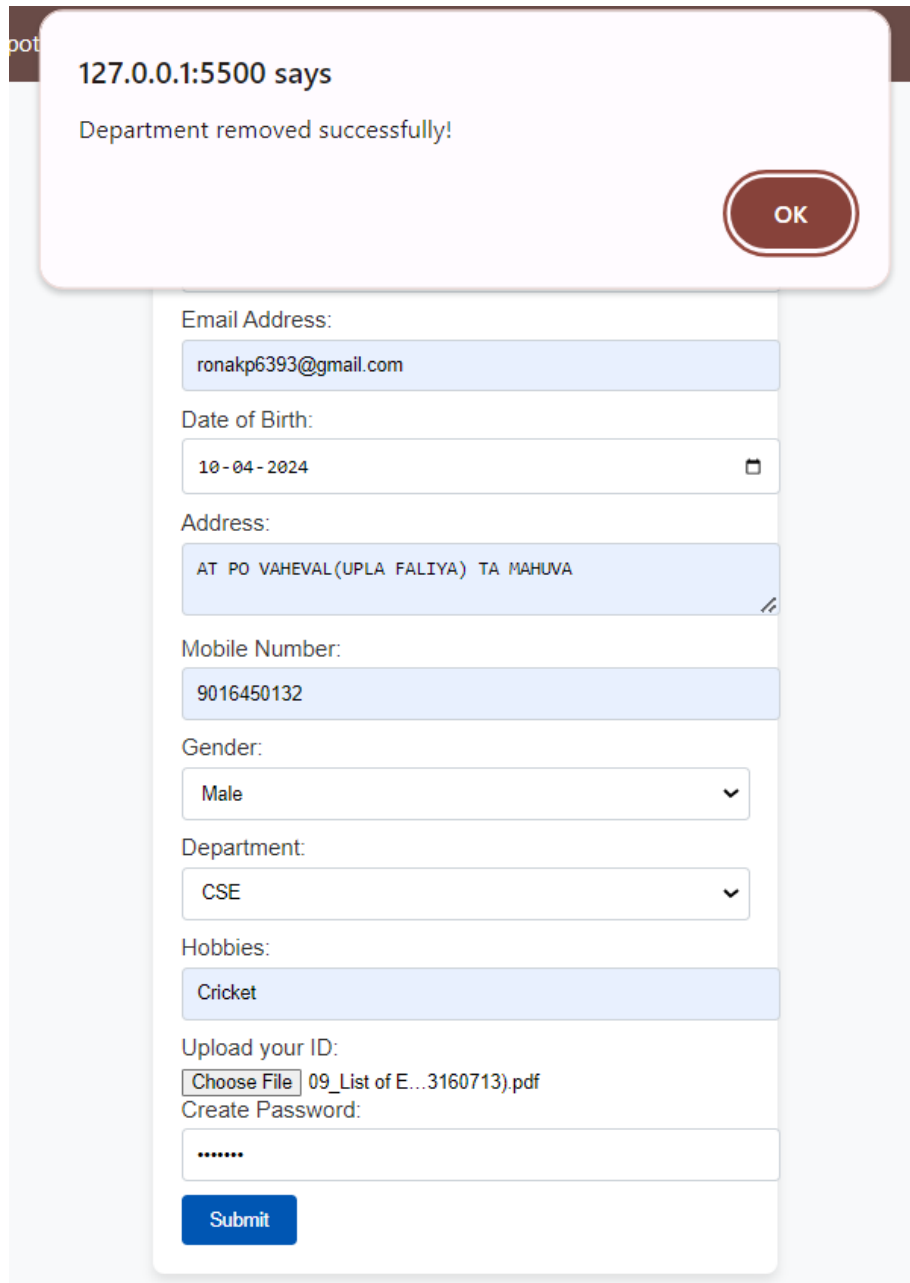
input[type="submit"]:hover {
    background-color: #0056b3;
}
```

### Script.js

```
function removeDepartment() {
    var departmentSelect = document.getElementById("department");
    var departmentToRemove = "Electrical"; // Department name to remove

    for (var i = 0; i < departmentSelect.options.length; i++) {
        if (departmentSelect.options[i].value === departmentToRemove) {
            departmentSelect.remove(i);
            alert("Department removed successfully!");
        }
    }
}
```

```
        break;
    }
}
```

**Output:**

The screenshot shows a web form with a light blue background. A white modal box with a pink border is overlaid on top, displaying a success message. The message reads: "127.0.0.1:5500 says" in bold, followed by "Department removed successfully!" in a smaller font. There is a pink "OK" button in the bottom right corner of the modal. Below the modal, the form fields are visible: "Email Address:" with the value "ronakp6393@gmail.com"; "Date of Birth:" with the value "10-04-2024" and a calendar icon; "Address:" with the value "AT PO VAHEVAL (UPLA FALIYA) TA MAHUVA" and a location pin icon; "Mobile Number:" with the value "9016450132"; "Gender:" with a dropdown menu showing "Male"; "Department:" with a dropdown menu showing "CSE"; "Hobbies:" with the value "Cricket"; "Upload your ID:" with a "Choose File" button and the filename "09\_List of E...3160713).pdf"; and "Create Password:" with a masked input field showing "\*\*\*\*\*". A blue "Submit" button is at the bottom of the form.

127.0.0.1:5500 says

Department removed successfully!

OK

Email Address:  
ronakp6393@gmail.com

Date of Birth:  
10-04-2024

Address:  
AT PO VAHEVAL (UPLA FALIYA) TA MAHUVA

Mobile Number:  
9016450132

Gender:  
Male

Department:  
CSE

Hobbies:  
Cricket

Upload your ID:  
Choose File 09\_List of E...3160713).pdf

Create Password:  
\*\*\*\*\*

Submit

**c) Write a JavaScript program to set paragraph background color.****CODE:****Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Set Paragraph Background Color</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Set Paragraph Background Color</h2>

    <p id="paragraph">My name is Ronak. I am computer science and engineering student
    at snpit&rc, umrakh. <br><br>Press Button to Change Paragraph Background.</p>

    <button onclick="changeBackgroundColor()">Change Background Color</button>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

**Styles.css**

```
body {
  font-family: Arial, sans-serif;
  background-color: #f8f9fa;
  margin: 0;
}

.container {
  max-width: 600px;
  margin: 20px auto;
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}

h2 {
```



```
    text-align: center;
    color: #007bff;
}

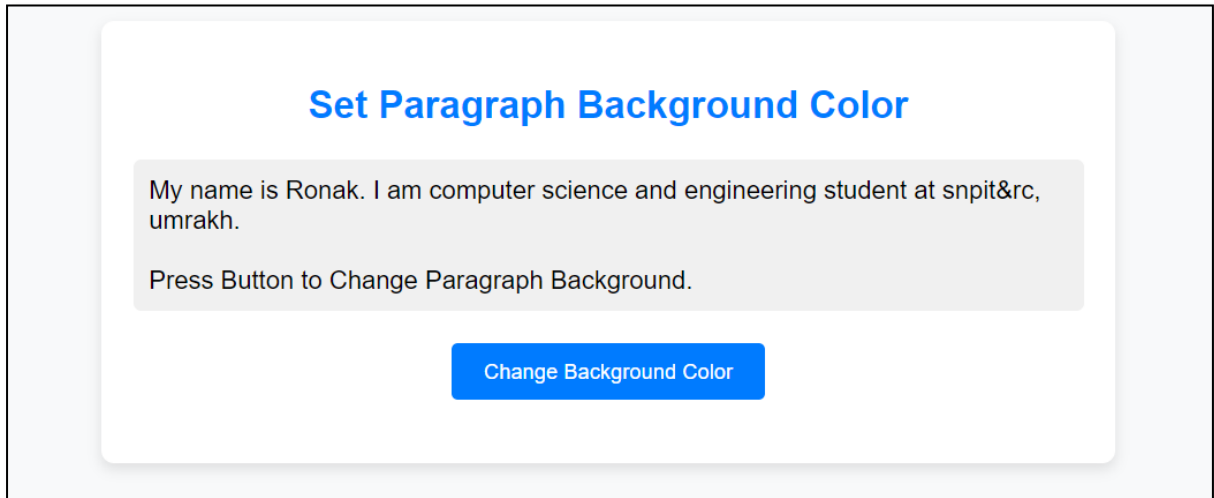
p {
    padding: 10px;
    border-radius: 5px;
    background-color: #f0f0f0;
}

button {
    display: block;
    margin: 20px auto;
    padding: 10px 20px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

button:hover {
    background-color: #0056b3;
}
```

### Script.js

```
function changeBackgroundColor() {
    var paragraph = document.getElementById("paragraph");
    var colors = ["#ff9999", "#99ff99", "#9999ff", "#ffff99", "#ff99ff"]; // Array of colors
    var randomColor = colors[Math.floor(Math.random() * colors.length)]; // Get a random
    color from the array
    paragraph.style.backgroundColor = randomColor;
}
```

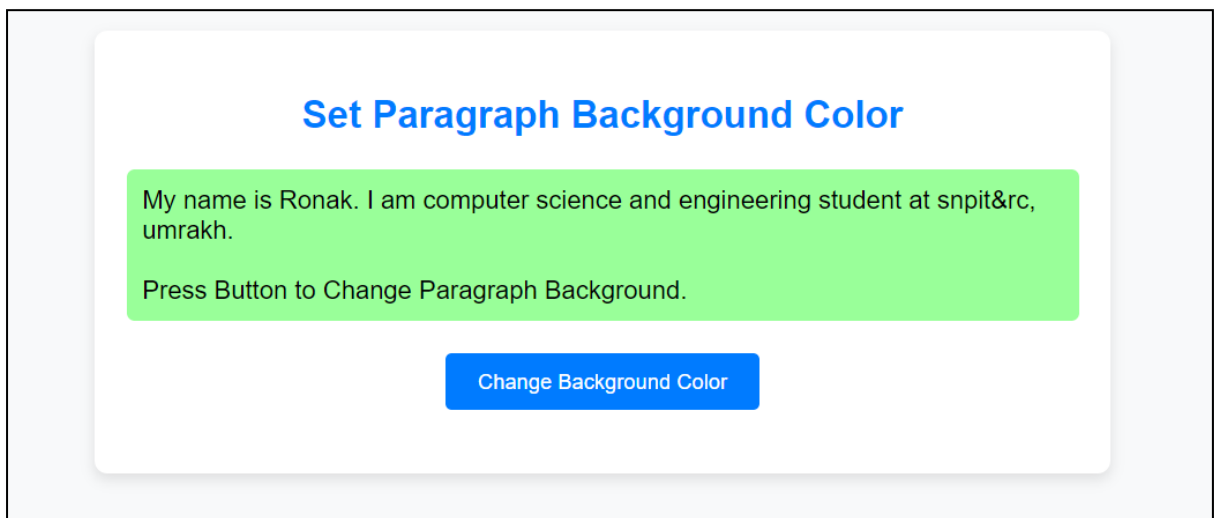
**Output:**

**Set Paragraph Background Color**

My name is Ronak. I am computer science and engineering student at snpit&rc, umrakh.

Press Button to Change Paragraph Background.

Change Background Color



**Set Paragraph Background Color**

My name is Ronak. I am computer science and engineering student at snpit&rc, umrakh.

Press Button to Change Paragraph Background.

Change Background Color

## Practical: 9

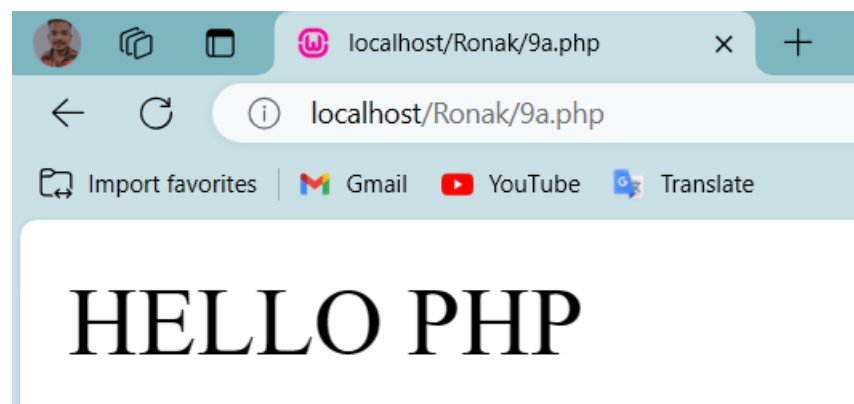
**Aim: To study and implement basic syntax of PHP.**

**a) Write a PHP program to print “HELLO PHP.**

**CODE:**

```
<html>
    <body>
        <?php
            echo "Hello PHP!";
        ?>
    </body>
</html>
```

**OUTPUT:**



**b) Write a PHP program to print following pattern**

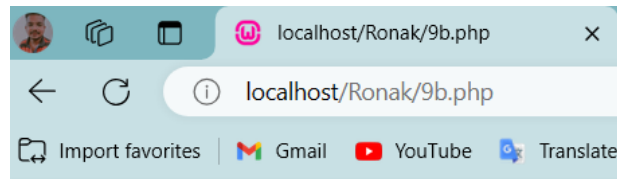
```
A
AB
ABC
ABCD
ABCDE
```

**CODE:**

```
<?php
    $alpha = range('A','Z');
    for($i=0;$i<=4;$i++)
    {
        for($k=4;$k>$i;$k--)
        {
            echo"&nbsp;&nbsp;&nbsp;&nbsp;";
        }
        for($j=0;$j<=$i;$j++)
        {
            echo $alpha[$j]."&nbsp;&nbsp;&nbsp;&nbsp;";
        }
        echo"<br>";
    }
}
```

?>

**OUTPUT:**



A  
A B  
A B C  
A B C D  
A B C D E

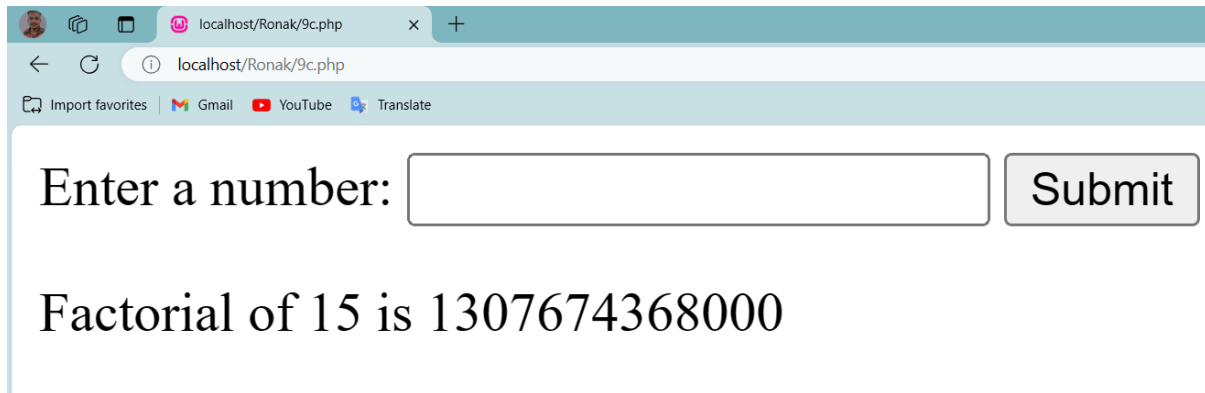
**c) Write a PHP program to find factorial of a given number.**

**CODE:**

```
<html>
  <body>
    <form method="post">
      Enter a number:
      <input type="number" name="n1">
      <input type="submit" value="Submit">
    </form>
  </body>
</html>
<?php
  if($_POST)
  {
    $num = $_POST['n1'];
    $factorial = 1;
    for ($x=$num; $x>=1; $x--)
    {
      $factorial = $factorial * $x;
    }
    echo "Factorial of $num is $factorial";
  }
}
```

?>

## OUTPUT:



The screenshot shows a web browser window with the address bar displaying 'localhost/Ronak/9c.php'. Below the browser window, there is a form with the text 'Enter a number:' followed by a text input field containing the number '15'. To the right of the input field is a 'Submit' button. Below the form, the output is displayed: 'Factorial of 15 is 1307674368000'.

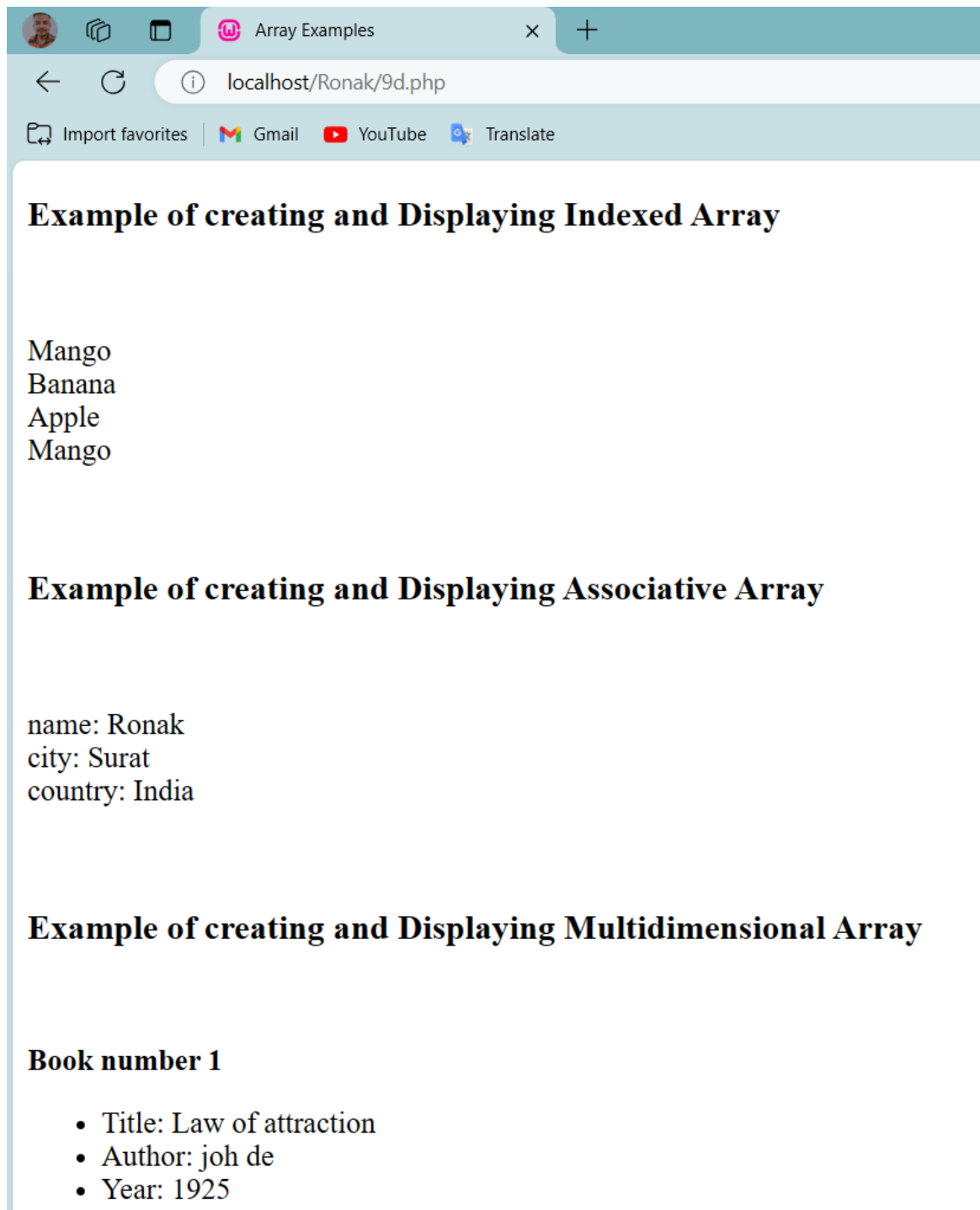
**d) Write a PHP program to create and display arrays.**

### CODE:

```
<!DOCTYPE html>

<html>
<head>
    <title>Array Examples</title>
</head>
<body>
    <h3>Example of creating and Displaying <b>Indexed Array</b></h3>
    <br><br>
    <?php
        $fruits = array("Mango", "Banana", "Apple", "Mango");
        foreach($fruits as $fruit)
        {
            echo $fruit . "<br>";
        }
    ?>
    <br><br>
    <h3>Example of creating and Displaying <b>Associative Array</b></h3>
    <br><br>
    <?php
```

```
$person = array("name"=>"Ronak", "city"=>"Surat", "country"=>"India");
foreach ($person as $key => $value)
{
    echo "$key: $value <br>";
}
?>
<br><br>
<h3>Example of creating and Displaying <b>Multidimensional Array</b></h3>
<br>
<?php
    $books = array (
        array("Title"=>"Law of attraction", "Author"=>"joh de", "Year"=>1925),
        array("Title"=>"Future of Ai", "Author"=>"Harper Lee", "Year"=>1960),
        array("Title"=>"master in hacking", "Author"=>"George Orwell", "Year"=>1949)
    );
    for ($row = 0; $row < 3; $row++)
    {
        echo "<p><b>Book number " . ($row+1) . "</b></p>";
        echo "<ul>";
        foreach ($books[$row] as $key => $value)
        {
            echo "<li>$key: $value</li>";
        }
        echo "</ul>";
    }
?>
</body>
</html>
```

**OUTPUT:**

**e) Write a PHP program to perform string operation.****CODE:**

```
<?php
```

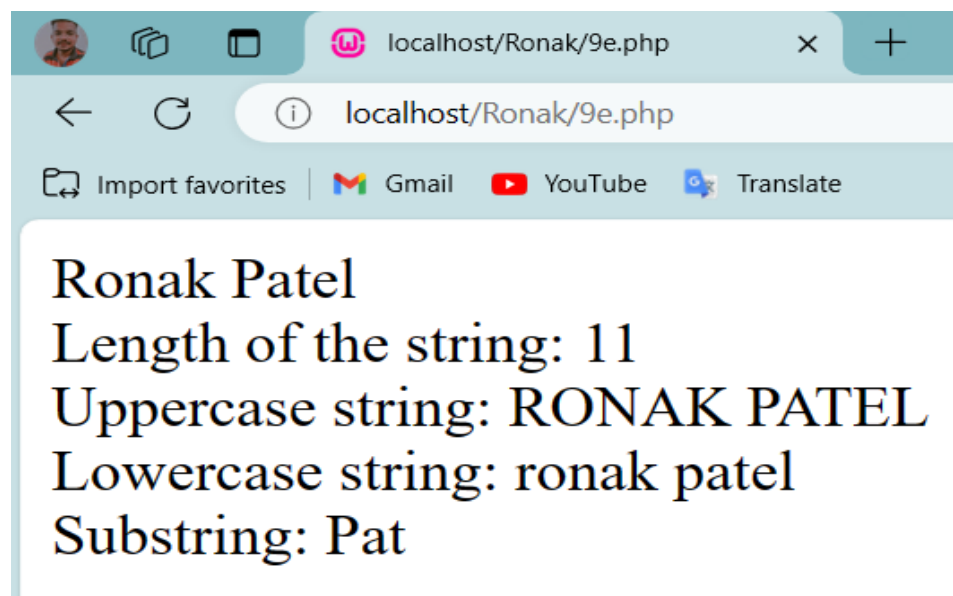
```
$string1 = "Ronak";  
$string2 = "Patel";  
echo $string1 . " " . $string2 . "<br>";
```

```
$string = "Ronak Patel";  
echo "Length of the string: " . strlen($string) . "<br>";
```

```
echo "Uppercase string: " . strtoupper($string) . "<br>";
```

```
echo "Lowercase string: " . strtolower($string) . "<br>";
```

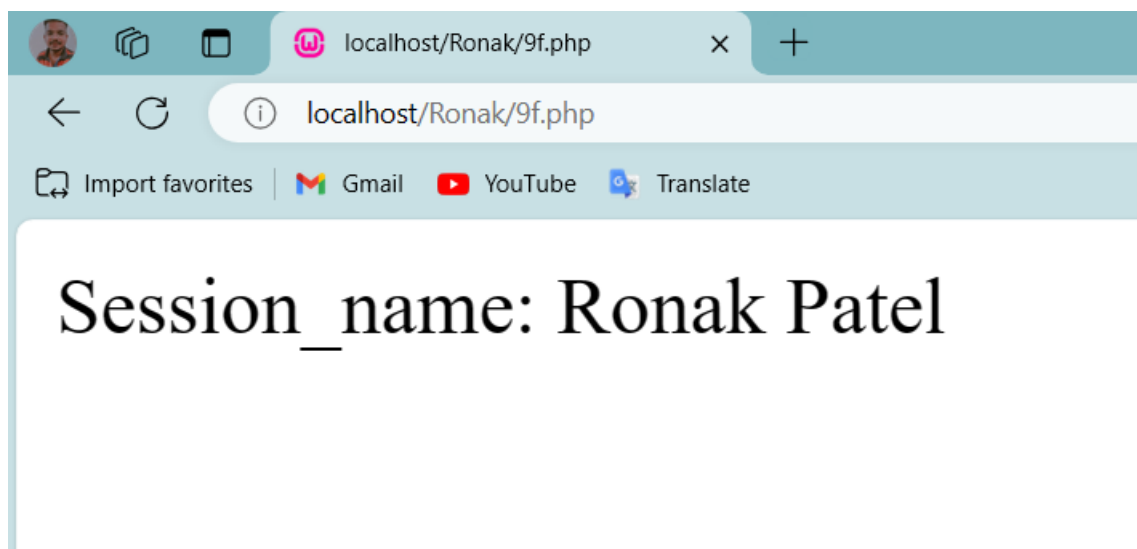
```
echo "Substring: " . substr($string, 6, 3) . "<br>";  
?>
```

**OUTPUT:**



**f) Write a PHP program to create a session.****CODE:**

```
<?php
    Session_Start();
    $value = "Ronak Patel";
    $_SESSION['Session_name'] = $value;
    if (isset($_SESSION["Session_name"]))
    {
        echo "Session_name: " . $_SESSION["Session_name"];
    }
    else
    {
        echo "Session_name not found";
    }
?>
```

**OUTPUT:**

**g) Write a PHP program to set cookie and fetching value for cookie.**

**CODE:**

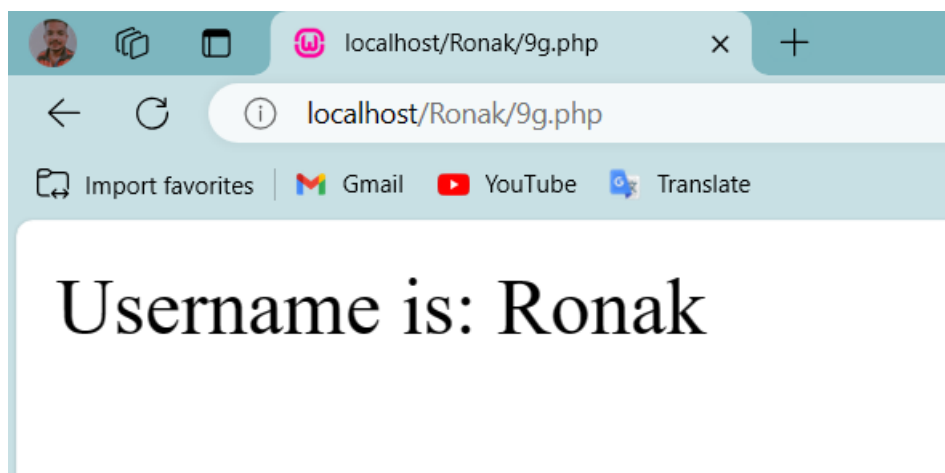
```
<?php
```

```
setcookie("username", "Ronak", time() + (86400 * 30), "/");
```

```
if(isset($_COOKIE['username'])) {  
    echo "Username is: " . $_COOKIE['username'];  
} else {  
    echo "Cookie is not set!";  
}
```

```
?>
```

**OUTPUT:**



## Practical: 10

**Aim : To study about PHP Form Processing.**

**Write a PHP program to store the data of Registration Form (created in Practical-3) into a database and also retrieve the data from it and display it on a webpage.**

**CODE :**

**Practical10.php**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Registration</title>
</head>
<body>
  <h2>User Registration</h2>
  <form action="" method="post" enctype="multipart/form-data">
    <label for="txtName">Full Name:</label>
    <input type="text" id="txtName" name="txtName" required><br><br>

    <label for="txtEmail">Email Address:</label>
    <input type="email" id="txtEmail" name="txtEmail" required><br><br>

    <label for="txtDate">Date of Birth:</label>
    <input type="date" id="txtDate" name="txtDate" required><br><br>

    <label for="txtAdd">Address:</label>
    <textarea id="txtAdd" name="txtAdd" required></textarea><br><br>

    <label for="txtContact">Mobile Number:</label>
    <input type="tel" id="txtContact" name="txtContact" pattern="[0-9]{10}"
required><br><br>

    <label>Gender:</label>
    <input type="radio" id="rbtnMale" name="rbtnGen" value="male" required>
    <label for="rbtnMale">Male</label>
    <input type="radio" id="rbtnFemale" name="rbtnGen" value="female" required>
    <label for="rbtnFemale">Female</label>
    <input type="radio" id="rbtnOther" name="rbtnGen" value="other" required>
    <label for="rbtnOther">Other</label><br><br>

    <label for="drpDept">Department:</label>
    <select id="drpDept" name="drpDept" required>
      <option value="Chemical">Chemical</option>
```

```

        <option value="CSE">CSE</option>
        <option value="Electrical">Electrical</option>
        <option value="Civil">Civil</option>
        <option value="Mechanical">Mechanical</option>
    </select><br><br>

    <label>Hobbies:</label><br>
    <input type="checkbox" id="chkReading" name="chkHobby[]" value="Reading">
    <label for="chkReading">Reading</label>
    <input type="checkbox" id="chkGaming" name="chkHobby[]" value="Gaming">
    <label for="chkGaming">Gaming</label>
    <input type="checkbox" id="chkTravelling" name="chkHobby[]" value="Travelling">
    <label for="chkTravelling">Travelling</label><br><br>

    <label for="fileID">Upload your ID:</label>
    <input type="file" id="fileID" name="fileID" accept=".jpg, .jpeg, .png, .pdf"
required><br><br>

    <label for="txtPass">Create Password:</label>
    <input type="password" id="txtPass" name="txtPass" minlength="8"
required><br><br>

    <input type="submit" name="submit" value="Submit">
</form>

<?php
// Connect to the database
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "userinfo"; // Database name
$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Handle form submission
$hobbies_F = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["txtName"];
    $email = $_POST["txtEmail"];
    $dob = $_POST["txtDate"];

```

```
$address = $_POST["txtAdd"];
$contact = $_POST["txtContact"];
$gender = $_POST["rbtnGen"];
$dept = $_POST["drpDept"];
$hobbies = $_POST["chkHobby"];
for ($i=0; $i<sizeof($hobbies);$i++)
    $hobbies_F .= $hobbies_F . "$hobbies[$i]. ", ";
}

$target_dir = "img/";
if (!file_exists($target_dir)) {
    mkdir($target_dir, 0777, true); // Create directory if it doesn't exist
}
$target_file = $target_dir . basename($_FILES["fileID"]["name"]);
$uploadOk = 1;
$imageFileType = strtolower(pathinfo($target_file, PATHINFO_EXTENSION));
// Check if image file is an actual image or fake image
if (isset($_POST["submit"])) {
    $check = getimagesize($_FILES["fileID"]["tmp_name"]);
    if ($check !== false) {
        echo "File is an image - " . $check["mime"] . ".";
        $uploadOk = 1;
    } else {
        echo "File is not an image.";
        $uploadOk = 0;
    }
}
if ($uploadOk == 0) {
    echo "Sorry, your file was not uploaded.";
} else {
    if (move_uploaded_file($_FILES["fileID"]["tmp_name"], $target_file)) {
        // Prepare and execute the SQL query
        $pass = $_POST["txtPass"];
        $insertsql = "INSERT INTO userinfo (Name, Email, DOB, Address, Contact, Gender,
Department, Hobbies, UploadID, Password) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
        $stmt = mysqli_prepare($conn, $insertsql);
        if ($stmt) {
            mysqli_stmt_bind_param($stmt, "ssssssssss", $name, $email, $dob, $address,
$contact, $gender, $dept, $hobbies_F, $target_file, $pass);
            if (mysqli_stmt_execute($stmt)) {
                $sql = "SELECT * FROM userinfo"; // Changed table name to userinfo
                $result = mysqli_query($conn, $sql);

                echo '<script>alert("Data Successfully Stored!!!")</script>';
            }
        }
    }
}
```

```
        if ($result) {
            // Start building the HTML table
            echo "<table border='1'>";
            echo
            "<tr><th>Name</th><th>Email</th><th>DOB</th><th>Address</th><th>Contact</th><th>
            >Gender</th><th>Department</th><th>Hobbies</th><th>File
            Upload</th><th>Password</th></tr>";
            while ($row = mysqli_fetch_assoc($result)) {
                echo "<tr>";
                echo "<td>" . $row['Name'] . "</td>";
                echo "<td>" . $row['Email'] . "</td>";
                echo "<td>" . $row['DOB'] . "</td>";
                echo "<td>" . $row['Address'] . "</td>";
                echo "<td>" . $row['Contact'] . "</td>";
                echo "<td>" . $row['Gender'] . "</td>";
                echo "<td>" . $row['Department'] . "</td>";
                echo "<td>" . $row['Hobbies'] . "</td>";
                echo "<td>" . $row['UploadID'] . "</td>";
                echo "<td>" . $row['Password'] . "</td>";
                echo "</tr>";
            }
        }
        echo "</table>";
    } else {
        echo "Error: " . mysqli_error($conn);
    }
    mysqli_stmt_close($stmt);
} else {
    echo "Error: " . mysqli_error($conn);
}
} else {
    echo "Sorry, there was an error uploading your file.";
}
}
// Close the database connection
mysqli_close($conn);
?>
</body>
</html>
```

**Output:**

User Registration

localhost / MySQL / userinfo / us

localhost/Ronak/Practical%2010.php

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Email Address:  
Ronypatel043@gmail.com

Date of Birth:  
11-04-2024

Address:  
AT PO VAHEVAL (UPLA FALIYA) TA MAHUVA

Mobile Number:  
7623886989

Gender:  
☒ Male  
☐ Female  
☐ Other

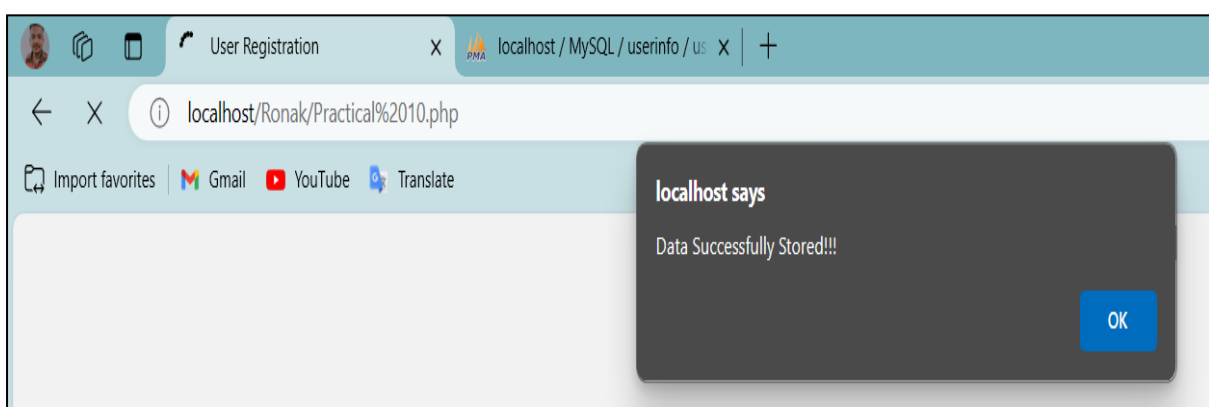
Department:  
CSE

Hobbies:  
☒ Reading  
☒ Gaming  
☒ Travelling

Upload your ID:  
Choose File AJP\_Seji.pdf

Create Password:  
\*\*\*\*\*

Submit



Name	Email	DOB	Address	Contact	Gender	Department	Hobbies	File Upload	Password
RONAKKUMAR PRAVINBHAI PATEL	Ronypatei043@gmail.com	2024-04-11	AT PO VAHEVAL(UPLA FALIYA) TA MAHUVA	7623886989	male	CSE	Gaming, Gaming, Travelling,	img/662d136cc7ee4_download.jpg	dfdsfsgsdgs
RONAKKUMAR PRAVINBHAI PATEL	Ronypatei043@gmail.com	2024-04-09	AT PO VAHEVAL(UPLA FALIYA) TA MAHUVA	7623886989	male	CSE	Gaming,	img/662d136cc7ee4_download.jpg	dssdfsdfss
neel chaudhari	neel@gmail.com	2024-04-17	songadh di tapi	2525252525	male	Chemical	Gaming, Gaming, Travelling,	img/662d136cc7ee4_download.jpg	dfsdfsdf

### Stored Data in Database:

Server: MySQL 3306 Database: userinfo Table: userinfo

Showing rows 0 - 2 (3 total. Query took 0.0006 seconds.)

SELECT \* FROM 'userinfo'

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

ID	Name	Email	DOB	Address	Contact	Gender	Department	Hobbies	UploadID	Password
7	RONAKKUMAR PRAVINBHAI PATEL	Ronypatei043@gmail.com	2024-04-11	AT PO VAHEVAL(UPLA FALIYA) TA MAHUVA	7623886989	male	CSE	Gaming, Gaming, Travelling,	img/662d136cc7ee4_download.jpg	dfdsfsgsdgs
8	RONAKKUMAR PRAVINBHAI PATEL	Ronypatei043@gmail.com	2024-04-09	AT PO VAHEVAL(UPLA FALIYA) TA MAHUVA	7623886989	male	CSE	Gaming,	img/662d136cc7ee4_download.jpg	dssdfsdfss
6	neel chaudhari	neel@gmail.com	2024-04-17	songadh di tapi	2525252525	male	Chemical	Gaming, Gaming, Travelling,	img/662d136cc7ee4_download.jpg	dfsdfsdf

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view