ASSIGNMENT-1 PRACTICAL

1. **Create a HTML page with hyperlink. When user click on hyper link the page will open**

    CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Hyperlink</title>
</head>
<body>
    <h2>Open Google page</h2>
    <p>Click on the link to open the google page</p>
    <a href="https://www.google.com/">Click me</a>
</body>
</html>
```

2. Make following table in HTML

Time Table and Fare List Name of Train	Place	Destination	Time		Fare
			Arrival	Departure	
Rajdhani Express	Bombay	Delhi	07.30	08.45	Rs 989.00
Madras Mail	Bombay	Madras	09.00	10.15	Rs 450.00
Konya Express	Bombay	Banglore	11.30	12.25	Rs 645.00
Konkan Express	Bombay	Manglore	13.30	14.45	Rs 756.00
Deccan Express	Bombay	Pune	16.00	17.30	Rs 345.00

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

```
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <title>Time Table And Fare List</title>
  </head>
  <body>
    <h1>Time Table and Fare List</h1>
    <Table border="2">
      <tr>
        <th rowspan="2">Time Table and Fare List<br>Name of Train</th>
        <th rowspan="2">Place</th>
        <th rowspan="2">Destination</th>
        <th colspan="2">Time</th>
        <th rowspan="2">Fare</th>
      </tr>
      <tr>
        <td>Arrival</td>
        <td>Departure</td>
      </tr>
      <tr>
        <td>Rajdhani Express</td>
        <td>Bombay</td>
        <td>Delhi</td>
        <td>07.30</td>
        <td>08.45</td>
        <td>Rs 989.00</td>
      </tr>
      <tr>
        <td>Madras Mail</td>
        <td>Bombay</td>
        <td>Madras</td>
        <td>09.00</td>
        <td>10.15</td>
        <td>Rs 450.00</td>
      </tr><tr>
        <td>Konya Express</td>
        <td>Bombay</td>
        <td>Banglore</td>
        <td>11.30</td>
        <td>12.25</td>
        <td>Rs 645.00</td>
      </tr><tr>
        <td>Konkan Express</td>
        <td>Bombay</td>
        <td>Manglore</td>
        <td>13.30</td>
        <td>14.45</td>
        <td>Rs 756.00</td>
      </tr><tr>
```

```
        <td>Deccan Express</td>
        <td>Bombay</td>
        <td>Pune</td>
        <td>16.00</td>
        <td>17.30</td>
        <td>Rs 345.00</td>
      </tr>
    </Table>
</body>
</html>
```

3. Create a 3*3 table. Each cell have an image.
In the same table make any two image as hyperlink.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table with image</title>
</head>
<body>
    <h1>3*3 Images Table</h1>
    <p>The Hyperlink has used in first and second image.</p>
    <table border="2">
      <tr>
        <th><a target="_blank" href="https://images.unsplash.com/photo-1576158113928-
4c240eaaf360?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8Mnx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"><img
width="200" src="https://images.unsplash.com/photo-1576158113928-
4c240eaaf360?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8Mnx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"
alt="Climate"></a></th>
        <th><a target="_blank" href="https://images.unsplash.com/photo-1576158114254-
3ba81558b87d?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8NHx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"><img
width="200" src="https://images.unsplash.com/photo-1576158114254-
3ba81558b87d?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8NHx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"
alt="Blue"></a></th>
        <th><img width="200" src="https://plus.unsplash.com/premium_photo-1672116453187-
3aa64afe04ad?w=500&auto=format&fit=crop&q=60&ixlib=rb-
```

```
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8MTN8fGltYWdlfGVufDB8fDB8fHww"
alt="Wheat"></a></th>
    </tr>
    <tr>
      <td><img width="200" src="https://images.unsplash.com/photo-1578589315522-
9e5521b9c158?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8MTl8fGltYWdlfGVufDB8fDB8fHww" alt="Snow"></td>
      <td><img width="200" src="https://media.istockphoto.com/id/1464561797/photo/artificial-
intelligence-processor-unit-powerful-quantum-ai-component-on-pcb-motherboard-
with.webp?b=1&s=170667a&w=0&k=20&c=AeBEFdsaJZmhbPHGocUkCutsQuR2rt828Aa8bDHyiOo="
alt="AI"></td>
      <td><img width="200" src="https://media.istockphoto.com/id/2093686198/photo/digitally-
staged-open-concept-living-
space.webp?b=1&s=170667a&w=0&k=20&c=hIkaVem3fng8NN7ZiUUbLvQIuOLPMAGw9v_qFXFu-
K8=" alt="Room"></td>
    </tr>
    <tr>
      <td><img width="200" src="https://media.istockphoto.com/id/2156356133/photo/fantasy-
scenery-with-mountain-lake-among-forest-at-summer-
solstice.webp?b=1&s=612x612&w=0&k=20&c=j8AmH4VF9SqheLfNBWnz-1gG-
Z_Xos9Y3i1HDzgeboU=" alt="Sun and Moon"</td>
      <td><img width="200" src="https://th.bing.com/th/id/OIP.gHAZ-
ek0nQYA2aIC9Ff22wHaHm?w=233&h=239&c=7&o=5&pid=1.20" alt="Earth"</td>
      <td><img width="200" src="https://media.istockphoto.com/id/136917788/photo/xl-
migrating-canada-
geese.webp?b=1&s=612x612&w=0&k=20&c=oM3XMDP5u_WSifvAw6bJ7tWxiNpBuUp3-
C6vZOOxe1k=" alt="Birds"</td>
    </tr>
  </table>
</body>
</html>
```

4. Make a HTML form similar to

https://login.yahoo.com/account/create?specId=yidReg

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Create Account</title>
  <style>
    body{
```

```css
    font-family: 'Times New Roman', Times, serif;
    background-color: aliceblue;
    align-items: center;
    justify-content: center;
    margin: 0;
    padding: 0;
    height: 100vh;
    display: flex;
}
.container{
    background-color: aliceblue;
    border-radius: 8px;
    padding: 20px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    max-width: 400px;
    width: 100%;
}
h1{
    text-align: center;
    color: black;
}
.form-group{
    margin-bottom: 15px;
}
.form-group label{
    display: block;
    margin-bottom: 5px;
    color: black;
}
.form-group input{
    color: black;
    background-color: rgb(248, 249, 250);
    border: 1px solid white;
    width: 100%;
    padding: 10px;
}
.form-group input[type="submit"]{
    background-color: blue;
    color: rgb(191, 214, 235);
    border: none;
    cursor: pointer;
}
.form-group input[type="submit"]:hover {
    background-color: #b55800;
}
.form-group input[type="checkbox"]{
    margin-right: 5px;
```

```
      }
      .form-group .error{
        color: red;
        font-size: 0.23em;
      }
    </style>
  </head>
  <body>
    <div class="container">
      <h1>Create Account</h1>
      <form action="/submit form" method="post">
        <div class="form-group">
          <label for="firstName">First Name</label>
          <input type="text" id="firstName" name="firstName">
          <div class="error" id="firstNameError"></div>
        </div>
        <div class="form-group">
          <label for="lastName">Last Name</label>
          <input type="text" id="lastName" name="lastName">
          <div class="error" id="lastNameError"></div>
        </div>
        <div class="form-group">
          <label for="email">Email</label>
          <input type="email" id="email" name="email">
          <div class="error" id="emailError"></div>
        </div>
        <div class="form-group">
          <label for="password">Password</label>
          <input type="password" name="password" id="password">
          <div class="error" id="passwordError"></div>
        </div>
        <div class="form-group">
          <label for="phone">Phone</label>
          <input type="tel" id="phone" class="phone">
          <div class="error" id="phoneError"></div>
        </div>
        <div class="form-group">
          <input type="checkbox" id="terms" name="terms">
          <label for="terms">I agree ot the <a href="#">Terms of Service</a> and <a
href="#">Privacy Policy</a></label>
        </div>
        <div class="form-group">
          <input type="submit" value="Create Account">
        </div>
      </form>
    </div>
  </body>
```

</html>

5. Make your own resume in HTML

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Resume</title>
  </head>
<body>
  <h1>MAHATO ROHAN RAMPUKAR</h1>
  <p><strong>Address </strong>: Vatva, Ahmedabad, Gujarat</p>
  <P><strong>E-mail </strong>: Rohanmahato@gmail.com</P>
  <p><strong>Phone </strong>: +91 81601 05689</p>
  <br>
  <h3>PERSONAL DETAILS</h3>
  <ul>
    <li><B>D.O.B </B>: 27th april,2002</li>
    <li><b>Gender </b>: Male</li>
    <li><b>Marital Status </b>: Unmarried</li>
    <li><b>Religion </b>: Hindu</li>
  </ul>
  <br>
  <h3>CAREER OBJECTIVE</h3>
  <ul>To be a part of an organization whare I can devote myself fully and joyfully <br>give out best
of my talents & skills to become its strong asset</ul>
  <br>
  <h3>EDUCATION QUALIFICATION</h3>
  <ul>
    <li>PGDCSA Running in this year on Gujarat University with null.</li>
    <li>B.Com Passed in May,2024 on S.V.V.M College with 67%.</li>
    <li>HSC Passed in April,2021 on JM School with 66%.</li>
    <li>SSC Passed in April,2019 on Image School with 58%.</li>
  </ul>
  <br>
  <h3>SKILLS</h3>
  <ul>
    <li>Basic computer knowledge <br>(MS Word, MS Excel, Power-Ponit)</li>
    <li>Problem Sloving skills.</li>
    <li>CCC, DTP, Tally ERP 9</li>
  </ul>
  <h3>LANGUAGE KNOWN</h3>
```

```
    <UL>English, Hindi</UL>
</body>
</html>
```

6. Create a HTML page with 3 frames. The page has top row with 100% width and 2 columns with 30% and 70% width. There is a hyperlink for each frame and a page should be open in a frame and second hyperlink should be in new tab/page

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q6</title>
  <style>
    *{
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }
    body{
      height: 100dvh;
      max-height: 100dvh;
    }
    main{
      height: 100%;
      width: 100%;
      display: grid;
      grid-template-rows: 1fr 1fr;
      grid-template-columns: 30% 70%;
    }
    div{
      display: flex;
      justify-content: center;
      align-items: center;
      border: 1px dotted rgb(203, 203, 203);
    }
    div:nth-child(1){
      grid-column: span 2;
      background-color: ghostwhite;
    }

  </style>
```

```
    <!--create 2 rows and second row should have a 2 sections and 1st should be 30% of width and
70% of width-->
</head>
<body>
   <main>
     <div>
       <a href="https://github.com" target="_blank">GitHub</a>
     </div>
     <div>
       <a href="https://leetcode.com" target="_blank">LeetCode</a>
     </div>
     <div>
       <a href="https://indra8969.github.io/My-Projects-" target="_blank">Projects</a>
     </div>
   </main>
</body>
</html>
```

7. Use following tag

I. article II. section III. nav IV. menu V. div
VI. span VII. video VIII. audio IX. object X. embed XI. Iframe

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <!-- use html tags
   I.   article *
   II.  section *
   III. nav     *
   IV.  menu    *
   V.  div     *
   VI.  span    *
   VII. video   *
   VIII.audio   *
   IX.  object  *
   X.   embed   *
   XI.  Iframe  *
   -->
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>HTML Tags Example</title>
   <style>
      body {
```

```
        font-family: Arial, sans-serif;
      }
      header, footer {
        background-color: #f8f9fa;
        padding: 10px;
        text-align: center;
      }
      nav ul {
        list-style-type: none;
        padding: 0;
      }
      nav ul li {
        display: inline;
        margin: 0 10px;
      }
      section {
        margin: 20px 0;
      }
      iframe, video, object{
        border-radius: 10px;
      }
    </style>
</head>
<body>
    <header>
      <h1>My Website</h1>
      <nav>
        <ul>
          <li><a href="#home">Home</a></li>
          <li><a href="#about">About</a></li>
          <li><a href="#contact">Contact</a></li>
        </ul>
      </nav>
    </header>

    <menu>
      <button onclick="alert('Save clicked')">Save</button>
      <button onclick="alert('Load clicked')">Load</button>
      <button onclick="alert('Print clicked')">Print</button>
    </menu>

    <main>
      <article>
        <h2>Article Title</h2>
        <p>This is a paragraph of text within an article.</p>
      </article>
    </main>
```

```
<div>
    <p>This is <span><b>span</b></span> tag</p>
</div>
<section>
    <h2>Video and Audio</h2>
    <video width="320" height="240" controls
src="https://cdn.pixabay.com/video/2023/07/05/170258-843059148_tiny.mp4"></video>
    <audio controls src="http://commondatastorage.googleapis.com/codeskulptor-assets/week7-
bounce.m4a">
</section>
<section>
    <h1>This is a embed tag</h1>
    <embed src="file:///C:/Users/TEMP.WINSR20.002/Downloads/sample-2%20(3).pdf"
type="application/pdf">
</section>
<section>
    <h2>iframe</h2>
    <iframe width="560" height="315"
src="https://www.youtube.com/embed/qgN1L95njA8?si=evVgwTCTZTg8EUU0" title="YouTube
video player" frameborder="0"  allowfullscreen></iframe>
</section>
<section>
    <h2>Object Element</h2>
    <object data="Q5.html" type="text/html" width="650" height="450"><object>
</section>

</body>
</html>
```

8. Create an external style sheet with background color is silver for Q2

CODE: CSS

```
*{
    box-sizing: border-box;
}
body{

    background-color:black;
    font-family: 'Times New Roman', Times, serif;
    font-size: medium;
```

```
}
h1{
   color:white;
}
table{
   background-color: rgb(39, 39, 39);
}
tr:nth-child(2n){
   background-color: rgb(73, 73, 73);
}
tr:nth-child(2){
   background-color: rgb(39,39,39);
}
th{
   text-align: center;
   color: white;
   text-justify: auto;
   font-size: medium;
}
td{
   text-align: center;
   font-size: medium;
   color: white;
   text-justify: auto;
   padding: 5px;
}
```

CODE: 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 And Fare List</title>
   <link rel="stylesheet" href="No 8.css">
</head>
<body>
   <h1>Time Table and Fare List</h1>
   <Table border="2">
     <tr>
        <th rowspan="2">Time Table and Fare List<br>Name of Train</th>
        <th rowspan="2">Place</th>
        <th rowspan="2">Destination</th>
        <th colspan="2">Time</th>
        <th rowspan="2">Fare</th>
     </tr>
```

```
            <tr>
               <td>Arrival</td>
               <td>Departure</td>
            </tr>
            <tr>
               <td>Rajdhani Express</td>
               <td>Bombay</td>
               <td>Delhi</td>
               <td>07.30</td>
               <td>08.45</td>
               <td>Rs 989.00</td>
            </tr>
            <tr>
               <td>Madras Mail</td>
               <td>Bombay</td>
               <td>Madras</td>
               <td>09.00</td>
               <td>10.15</td>
               <td>Rs 450.00</td>
            </tr><tr>
               <td>Konya Express</td>
               <td>Bombay</td>
               <td>Banglore</td>
               <td>11.30</td>
               <td>12.25</td>
               <td>Rs 645.00</td>
            </tr><tr>
               <td>Konkan Express</td>
               <td>Bombay</td>
               <td>Manglore</td>
               <td>13.30</td>
               <td>14.45</td>
               <td>Rs 756.00</td>
            </tr><tr>
               <td>Deccan Express</td>
               <td>Bombay</td>
               <td>Pune</td>
               <td>16.00</td>
               <td>17.30</td>
               <td>Rs 345.00</td>
            </tr>
         </Table>
      </body>
</html>
```

9. Apply internal style sheet for Q3.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table with image</title>
    <style>
        body{
            background-color: black;
        }
        h1{
            color: aqua;
        }
        p{
            color: aqua;
        }
        table{
            background-color: chocolate;
            box-shadow: inset;
            border: 10px solid gold;
        }

    </style>
</head>
<body>
    <h1>3*3 Images Table</h1>
    <p>The Hyperlink has used in first and second image.</p>
    <table border="2">
      <tr>
        <th><a target="_blank" href="https://images.unsplash.com/photo-1576158113928-
4c240eaaf360?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8Mnx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"><img
width="200" src="https://images.unsplash.com/photo-1576158113928-
4c240eaaf360?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8Mnx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"
alt="Climate"></a></th>
        <th><a target="_blank" href="https://images.unsplash.com/photo-1576158114254-
3ba81558b87d?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8NHx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"><img
width="200" src="https://images.unsplash.com/photo-1576158114254-
3ba81558b87d?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8NHx8aW1hZ2V8ZW58MHx8MHx8fDA%3D"
alt="Blue"></a></th>
        <th><img width="200" src="https://plus.unsplash.com/premium_photo-1672116453187-
3aa64afe04ad?w=500&auto=format&fit=crop&q=60&ixlib=rb-
```

```
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8MTN8fGltYWdlfGVufDB8fDB8fHww"
alt="Wheat"></a></th>
    </tr>
    <tr>
      <td><img width="200" src="https://images.unsplash.com/photo-1578589315522-
9e5521b9c158?w=500&auto=format&fit=crop&q=60&ixlib=rb-
4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8MTl8fGltYWdlfGVufDB8fDB8fHww" alt="Snow"></td>
      <td><img width="200" src="https://media.istockphoto.com/id/1464561797/photo/artificial-
intelligence-processor-unit-powerful-quantum-ai-component-on-pcb-motherboard-
with.webp?b=1&s=170667a&w=0&k=20&c=AeBEFdsaJZmhbPHGocUkCutsQuR2rt828Aa8bDHyiOo="
alt="AI"></td>
      <td><img width="200" src="https://media.istockphoto.com/id/2093686198/photo/digitally-
staged-open-concept-living-
space.webp?b=1&s=170667a&w=0&k=20&c=hIkaVem3fng8NN7ZiUUbLvQIuOLPMAGw9v_qFXFu-
K8=" alt="Room"></td>
    </tr>
    <tr>
      <td><img width="200" src="https://media.istockphoto.com/id/2156356133/photo/fantasy-
scenery-with-mountain-lake-among-forest-at-summer-
solstice.webp?b=1&s=612x612&w=0&k=20&c=j8AmH4VF9SqheLfNBWnz-1gG-
Z_Xos9Y3i1HDzgeboU=" alt="Sun and Moon"</td>
      <td><img width="200" src="https://media.istockphoto.com/id/2140569950/photo/planet-vs-
plastics-earth-day-2024-
concept.webp?b=1&s=612x612&w=0&k=20&c=Lf5BFIL_07QJfkndWyWn9gVqKmwMIW_wfOiGbIlAR
q4=" alt="Earth"</td>
      <td><img width="200" src="https://media.istockphoto.com/id/136917788/photo/xl-
migrating-canada-
geese.webp?b=1&s=612x612&w=0&k=20&c=oM3XMDP5u_WSifvAw6bJ7tWxiNpBuUp3-
C6vZOOxe1k=" alt="Birds"</td>
    </tr>
  </table>
</body>
</html>
```

ASSIGNMENT-2
CSS AND JAVASCRIPT

1) Write a HTML code with inline Css

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Q1-styles wiht inline css</title>
 </head>
 <body>
   <div style="display: flex; flex-direction: column">
    <p
      style="
        color: white;
        background-color: black;
        font-family: 'Courier New', Courier, monospace;
        text-decoration: wavy;
        padding: 20px;
      "
    >
      This is create using the inline css!
    </p>
    <a
      href="https://github.com"
      style="text-decoration: line-through;
      cursor: pointer;
      margin: 20px 0px;
      "
      >link</a
    >
    <img

src="https://th.bing.com/th/id/OIP.wZ9TIXABLaRIq6TLMm3rSwHaHa?w=184&h=184&c=7&r=0&o=5
&pid=1.7"
      alt=""
      style="
        background-image: url(https://images.pexels.com/photos/6185466/pexels-photo-
6185466.jpeg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=1);
        object-fit: cover;
        width: 500px;
        height: 500px;
        border: 10px solid rgb(210, 210, 210);
        border-radius: 5px;
```

```
      "
    />
    <ul style="all: unset;list-style: none; padding: 20px 0px;">
      <li>This is list item with no styling </li>
    </ul>
   </div>
 </body>
</html>
```

2) Write a HTML code with Internal Css

CODE:

```html
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Q2- with internal css</title>
   <style>
    div {
      display: flex;
      flex-direction: column;
    }

    p {
      color: white;
      background-color: black;
      font-family: "Courier New", Courier, monospace;
      padding: 20px;
    }

    a {
      text-decoration: line-through;
      cursor: pointer;
      margin: 20px 0;
    }

    img {
      object-fit: cover;
      width: 320px;
      height: 320px;
      border: 10px solid rgb(210, 210, 210);
      border-radius: 5px;
    }
```

```
   ul{
     all: unset;
     list-style: none;
     padding: 20px 0px;
   }
  </style>
 </head>
 <body>
  <div>
   <p >hello world !</p>
   <a href="https://github.com">link</a>
   <img
```

src="https://th.bing.com/th/id/OIP.CVM58TfGuCQA20muJEJYvAHaEK?w=276&h=180&c=7&r=0&o=
5&pid=1.7"

```
     alt=""
   />
   <ul>
    <li>This is a list item with no styling</li>
   </ul>
  </div>
 </body>
</html>
```

3) Write a HTML code with External Css

CODE: Style.Css

```
div {
  display: flex;
  flex-direction: column;
 }

 p {
  color: white;
  background-color: black;
  font-family: "Courier New", Courier, monospace;
  padding: 20px;
 }

 a {
  text-decoration: line-through;
  cursor: pointer;
  margin: 20px 0;
```

```
  }

  img {
    object-fit: cover;
    width: 320px;
    height: 320px;
    border: 10px solid rgb(210, 210, 210);
    border-radius: 5px;
  }

  ul{
    all: unset;
    list-style: none;
    padding: 20px 0px;
  }
```

CODE: HTML

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q3- styling with the external css</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div>
        <p >hello world !</p>
        <a href="https://github.com">link</a>
        <img

src="https://th.bing.com/th/id/OIP.UYagQDMo7CCbBLXOPB5etAHaHa?w=191&h=191&c=7&r=0&o=
5&pid=1.7"
          alt=""
        />
        <ul>
          <li>This is a list item with no styling</li>
        </ul>
      </div>
</body>
</html>
```

4) Print hello word using internal JavaScript

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <script>
      document.write("Hello World!");
   </script>
</body>
</html>
```

5) Apply all the arithmetic Operation using JavaScript

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q5.apply arithmetic operations</title>
 </head>
 <body>
  <div>
   <p id="resultElem"></p>
   <button>Operate</button>
  </div>
  <script>
   let resultElem = document.querySelector("#resultElem");
   let btnElem = document.querySelector("button");

   let val1;
   let val2;
   let operator;

   function getResult() {
    val1 = prompt("Enter the first value : ");
    val2 = prompt("Enter the second value : ");
    operator = prompt("Enter the operator : ");
    let res = eval(val1 + operator + val2);
    return res;
```

```
      }

      btnElem.addEventListener("click", () => {
       let result = getResult();
       resultElem.innerText = `${val1} ${operator} ${val2} = ${result}`;
      });

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

6) Accept number from the user and find number is even or odd, display result using alert box

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Q6.Odd or Even ? </title>
</head>
<body>
   <div>
     <button>Enter value</button>
   </div>
   <script>
     let btn = document.querySelector('button');
     btn.onclick = ()=>{
       let value = prompt("Enter value : ");
       if(+value % 2){
         alert(value + " is odd number");
       }else{
         alert(value + " is even number");
       }
     }
   </script>
</body>
</html>
```

7) Using while loop print all even number between 1 -25.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q7. print even nums using while loop</title>
</head>
<body>
    <script>
        let i = 1;
        while(i<=25){
            document.write(" "+ i++)
        }
    </script>
</body>
</html>
```

8) Using for loop print multiplication table.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q8. using for loop print multiplication table</title>
    <style>
        p{
            all: unset;
            padding: 5px 0px;
        }
        #table{
            display: flex;
            flex-direction: column;
            padding: 5px;
            background-color: black;
            border-radius: 5px;
            gap: 2px;
            width: fit-content;
        }
        #table > div{
            background-color: white;
            padding: 5px;
        }
```

```
button{
    all: unset;
    background-color: black;
    color: white;
    padding: 10px;
    margin: 10px 0px;
    border-radius: 5px;
}
    </style>
</head>
<body>
  <div>
    <p>Table</p>
    <div id="table"></div>
    <button>Print Table</button>
  </div>
  <script>
    let btn = document.querySelector('button');4
    let tableElem = document.querySelector('#table');

    function printtable(num){
      console.log(num, typeof num);
      tableElem.innerHTML = "";
      for(let i = 1; i <= 10; i++){
        let row = document.createElement("div");
        let text = `${num} * ${i} = ${num * i}`;
        row.innerText = text;
        tableElem.appendChild(row);
      }
    }
    btn.onclick = ()=>{
      let value = prompt("Enter the number you wanna print multiplication table : ");
      printtable(+value);
    }
    btn.click();
  </script>
</body>
</html>
```

9) Using do while loop find number divisible by 3 between 1-50

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <title>Q9. divisable by 3 1 to 50</title>
  </head>
  <body>
      <script>
          document.write("This numbers are divisable by the 3 betwen 1 to 50 : ")
          for(let i = 1; i <= 50; i++){
              if(!(i % 3)){
                  document.write(`${i} `);
              }
          }
      </script>
  </body>
</html>
```

10) Implement all the dialog Box: Apply all dialogue box 1. Alert 2. Prompt 3. Confirm

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <title>Q10. apply prompt, alert and confirm</title>
 </head>
 <body>
  <p id="print"></p>
  <button>start</button>
  <script>
    let printelm = document.querySelector('#print');
   document.querySelector("button").addEventListener("click",async () => {
    if (confirm("Do you wanna to continue")) {
     let value = prompt("enter the value you want to print in the dom : ");
     if (value) {
      printelm.innerText = value;
     }
     await sleep(0);
     if (value) {
      alert("your value is printed to the dom");
     } else {
      alert("You have not provided any value");
     }
    }
```

```
    });

    function sleep(ms){
     return new Promise((res, rej)=>{
        setTimeout(() => {
           res('resolved');
        }, ms);
     })
    }
  </script>
 </body>
</html>
```

ASSIGNMENT-3 PRACTICAL

1) Simple calculator with 3 Textboxes.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Q1</title>
</head>
<body>
   <div class="container">
      <h1>Simple calculator</h1>
      <input type="number" id="one" placeholder="Enter first value">
      <select id="select">
        <option value="+">+</option>
        <option value="-">-</option>
        <option value="*">*</option>
        <option value="/">/</option>
      </select>
      <input type="number" id="two" placeholder="Enter second value">
      <button>submit</button>
      <p id="res"></p>
   </div>

   <script>
      let inp1 = document.querySelector('#one');
      let inp2 = document.querySelector('#two');
      let select = document.querySelector('select');
      let btn = document.querySelector('button');
      let res = document.querySelector('#res');
      btn.addEventListener('click', ()=>{
         res.innerText = eval(inp1.value + select.value + inp2.value);
      });
   </script>
</body>
</html>
```

2) Leap Year

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Leap Year Checker</title>
</head>
<body>
  <h1>Leap Year Checker</h1>
  <label for="yearInput">Enter a year: </label>
  <input type="number" id="yearInput" placeholder="e.g., 2024">
  <button onclick="checkLeapYear()">Check</button>

  <p id="result"></p>

  <script>
    function checkLeapYear() {
      const year = document.getElementById("yearInput").value;
      const result = document.getElementById("result");

      if (year === "") {
        result.textContent = "Please enter a valid year.";
        return;
      }

      if ((year % 4 === 0 && year % 100 !== 0) || year % 400 === 0) {
        result.textContent = year + " is a leap year.";
      } else {
        result.textContent = year + " is not a leap year.";
      }
    }
  </script>
</body>
</html>
```

3) Odd, Even , Positive ,Negative

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Min and Max Finder</title>
</head>
<body>
  <h1>Find Min and Max</h1>
  <p id="values" style="word-break: break-all;"></p>
  <label for="numbersInput">Enter numbers separated by commas: </label>
  <input type="text" id="numbersInput" onchange="add()" placeholder="e.g., 5, 10, 3, 8">
  <button onclick="add()">Add</button>
  <button onclick="findMinMax()">Find Min and Max</button>

  <p id="result"></p>

  <script>
    const input = document.querySelector('#numbersInput');
    const values = document.querySelector('#values');
    const result = document.getElementById("result");
    const numbersInput = document.getElementById("numbersInput").value;
    let arr = [];
    function add(){
      arr.push(+input.value);
      console.log(arr)
      values.innerText += input.value + ", "
      input.value = ''
    }
    function findMinMax() {
      let min = arr[0], max = arr[0];
      arr.forEach((item, i)=>{
        if(item < min)
          min = item;
        if(item > max)
          max = item;
      })
      result.textContent = `Min: ${min}, Max: ${max}`;
      values.innerText = "";
      arr = [];
    }
  </script>
```

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

4) Maximum, Minimum number

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q4</title>
  <style>
    .container{
      display: flex;
      flex-direction: column;
      gap: 5px;
    }
    input, button{
      height: 35px;
    }
  </style>
</head>
<body >
  <div class="container">
    <label for="input">Enter the numbers</label>
    <input type="number" id="input" placeholder="Enter the numbers">
    <button id="add">Add</button>
    <button id="reset">reset</button>
    <p id="output"></p>
  </div>

  <script>
    let values = []
    let input = document.querySelector('input');
    let output = document.querySelector('#output');
    let btn = document.querySelector('#add');
    let resetbtn = document.querySelector('#reset');
    resetbtn.addEventListener("click", ()=>{
      values = [];
      output.innerHTML = ""
    })
    function getMinMax(values){
      let min = values[0], max = values[0];
```

```
        for(let i = 0; i < values.length; i++){
            if(values[i] < min) min = values[i];
            if(values[i] > max) max = values[i];
        }
        return [min, max];
    }
    input.addEventListener('keyup', (e)=>{
        if(e.key == "Enter") btn.click();
    })
    btn.addEventListener("click", (e)=>{
        if(!input.value) return alert("please add number");
        if(typeof Number(input.value) !== Number && isNaN(Number(input.value))) return
alert("please add number");
        values.push(Number(input.value));
        input.value = ''
        let [min, max] = getMinMax(values);
        output.innerHTML = "min value : " + min + "<br>" + "max value :" + max;
    });

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

5) Get Mark of 3 subjects and give result like if total marks are between 0 – 50 then fail ,50 –100 then pass ,100-150 then first class

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q5</title>
</head>
<body>
    <div class="container">
        <div>
            <label for="marks">Enter marks</label>
            <div>
                <input type="number" id="marks">
                <input type="number" id="marks">
                <input type="number" id="marks">
            </div>
            <button id="btn">Get Status</button>
            <p id="res"></p>
```

```
        </div>
      </div>

      <script>
        let inputs = document.querySelectorAll('input');
        let btn = document.querySelector('#btn');
        let res = document.querySelector('#res');
        btn.addEventListener('click', ()=>{
          let inp1 = Number(inputs[0].value);
          let inp2 = Number(inputs[1].value);
          let inp3 = Number(inputs[2].value);
          if(!inp1 ||  !inp2 || !inp3) return;
          let total = inp1 + inp2 + inp3;
          if(total <= 50) res.innerText = "Failed better luck next time";
          else if(total <= 100) res.innerText = "Cracked it";
          else res.innerText = "First class";
        })
      </script>
    </body>
    </html>
```

6) Enter Color name and according to it textbox color will change

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q6</title>
  <style>
    #color{
      width: 100px;
      height: 100px;
      border-radius: 5px;
      display: flex;
      align-items: center;
      justify-content: center;
    }
  </style>
</head>
<body>
  <div class="container">
    <div id="color">white</div>
    <input type="text" placeholder="Enter the color">
```

```
        </div>

        <script>
          let input = document.querySelector('input');
          let colorElem = document.querySelector('#color');
          input.addEventListener("keyup",(e)=>{
            colorElem.style.backgroundColor = e.target.value;
            colorElem.innerText = e.target.value;
          })
        </script>
      </body>
    </html>
```

7) Enter student no according to no display message "Good", "Try best in next exam", "Need to improve" (Select case)

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Score Feedback</title>
</head>
<body>
  <h1>Enter Student Score</h1>
  <label for="scoreInput">Enter student score (0-100): </label>
  <input type="number" id="scoreInput" min="0" max="100" placeholder="e.g., 75">
  <button onclick="showFeedback()">Submit</button>

  <p id="message"></p>

  <script>
    function showFeedback() {
      const score = parseInt(document.getElementById("scoreInput").value);
      const message = document.getElementById("message");

      if (isNaN(score) || score < 0 || score > 100) {
        message.textContent = "Please enter a valid score between 0 and 100.";
        return;
      }

      switch (true) {
        case (score >= 75):
```

```
              message.textContent = "Good";
              break;
           case (score >= 50):
              message.textContent = "Try your best in the next exam";
              break;
           case (score < 50):
              message.textContent = "Need to improve";
              break;
           default:
              message.textContent = "Invalid score.";
        }
     }
   </script>
</body>
</html>
```

8) Print Table

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Q8</title>
</head>
<body>
   <div class="container">
      <input type="number" placeholder="Enter the number ">
      <div id="table"></div>
   </div>

   <script>
      let input = document.querySelector('input');
      let table = document.querySelector('#table');
      input.addEventListener("keyup", ()=>{
         let number = Number(input.value);
         let res = '';
         for(let i = 1; i < 11; i++){
            res += `<span>${number} * ${i} = ${number * i}</span><br>`
         }
         table.innerHTML = res;
      })
   </script>
```

</body>
</html>

9) Reverse number , Reverse string , Palindrome

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q9</title>
</head>
<body>
  <div>
    <select id="select">
      <option value="string" selected>Reverse String</option>
      <option value="number">Reverse Number</option>
    </select>
    <input type="text" placeholder="">
    <p id="res"></p>
  </div>

  <script>
    let input = document.querySelector('input');
    let select = document.querySelector('select');
    let res = document.querySelector('#res');
    let task = select.value;

    select.addEventListener("change", (e)=>{
      task = e.target.value;
    })

    function revStr(str){
      let rev = '';
      let i = str.length -1;
      while(i >= 0){
        rev += str[i];
        i--;
      }
      return {
        rev,
        isPalin: str == rev
      };
    }

    function revNumber(num){
      let rev = 0, rem;
```

```
            let isneg = false;
            num = Number(num)
            let cpy = num;
            if(num < 0){
                isneg = true;
                num = Math.abs(num);
            }
            while(num > 0){
                rem = num % 10;
                rev = rev * 10 + rem;
                num = Math.floor(num/10);
            }
            return {
                rev: isneg ? 0 - rev : rev,
                isPalin: rev = cpy
            }
        }

        input.addEventListener('keyup', (e)=>{
            let result;
            if(task == "string"){
                result = revStr(e.target.value);
            }else{
                result = revNumber(e.target.value);
                console.log(result)
            }
            res.innerHTML = `
                Reversed number is ${result.rev}<br>
                ${e.target.value} is ${result.isPalin ? "palindrome" : "not palindrome"}
            `
        })
    </script>
</body>
</html>
```

10) Factorial of number.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q10</title>
</head>
<body>
    <div>
        <input type="number" placeholder="Enter Number">
        <p id="res"></p>
```

```
        </div>

        <script>
          let input = document.querySelector('input');
          let res = document.querySelector('#res');

          function factorial(val){
            if(val > 170) return alert("Enter value below 170")
            if(val == 1) return val;
            return val * factorial(val -1);
          }
          input.addEventListener('keyup', (e)=>{
            let value = Number(e.target.value);
            let fact = factorial(value);
            res.innerHTML = `Factorail of the ${value} is ${fact}`;
          })
        </script>
      </body>
      </html>
```

11) Addition of series like 1234 then answer 1+2+3+4 = 10

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q11</title>
</head>
<body>
  <input type="number" placeholder="Enter the number">
  <p id="res"></p>

  <script>
    let input = document.querySelector('input');
    let res = document.querySelector('#res');
    input.addEventListener('keyup', (e)=>{
      let str = e.target.value;
      let resstr = '';
      let sum = 0;
      for(let i = 0; i < str.length; i++){
        sum += Number(str[i]);
        resstr += str[i];
        if(i < str.length - 1){
          resstr += "+";
        }
      }
      resstr += "=" + sum;
```

```
        res.innerHTML = resstr;
      })
    </script>
  </body>
</html>
```

12) To display Good morning, Good afternoon, Good evening depending upon the system time.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q12</title>
</head>
<body>
    <h1 id="status"></h1>

    <script>
      let status = document.querySelector('h1');
      let hour = new Date().getHours();
      if(hour >= 21 || (hour <= 4 && hour > 0)){
        status.innerText = "It's a sleep time ! Good Night"
      }else if(hour > 4 && hour <= 11){
        status.innerText = "Good Morning !"
      }else if(hour > 11 && hour <= 16){
        status.innerText = "Good Afternoon!"
      }else{
        status.innerText = "Good Evening!"
      }
    </script>
  </body>
</html>
```

13) To display today's date in the status bar of the browser.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Custom Status Bar</title>
    <style>
```

```
    #status-bar {
        position: fixed;
        bottom: 0;
        width: 100%;
        background-color: #333;
        color: white;
        text-align: center;
        padding: 10px;
        font-size: 16px;
    }
  </style>
  <script>
    function updateStatusBar() {
      var today = new Date();
      var dateString = today.toLocaleDateString();
      document.getElementById("status-bar").textContent = "Today's Date: " + dateString;
    }

    window.onload = updateStatusBar;
  </script>
</head>
<body>
  <h1>Modern Browser Custom Status Bar</h1>
  <p>The current date will appear in the custom status bar at the bottom of the page.</p>

  <div id="status-bar"></div> <!-- Custom status bar -->
</body>
</html>
```

14) Take 2 textboxes and 2 radio buttons one radio button name is Square and second one name is Cube. First text box accept the value from user whenever you click on square appropriate result will be display in second textbox.

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q14</title>
  <style>
   input {
     display: block;
   }
   input[type="radio"] {
     display: inline;
   }
  </style>
```

```
    </head>
    <body>
     <div>
      <input type="number" placeholder="width" id="input" />
      <input type="number" placeholder="height" id="input" />
      <input type="number" placeholder="depth" id="input" />
      <br />
      <input type="radio" name="option" checked id="radio1" value="cube" />
      <label for="radio1">Cube</label>
      <input type="radio" name="option" id="radio2" value="sqr" />
      <label for="radio2">Square</label>
      <br />
      <h id="res"></h>
     </div>

     <script>
      let inputs = document.querySelectorAll("#input");
      let radioInps = document.getElementsByName("option");
      let res = document.querySelector("#res");
      let task = "cube";

      function showres() {
       if (task == "sqr") {
        res.innerHTML = `sqr is : ${
         Number(inputs[0].value) * Number(inputs[1].value)
        }`;
       } else {
        res.innerHTML = `cube is : ${
         Number(inputs[0].value) *
         Number(inputs[1].value * Number(inputs[2].value))
        }`;
       }
      }

      radioInps.forEach((elem) => {
       elem.addEventListener("change", (e) => {
        task = e.target.value;
        if (task == "sqr") {
         inputs[2].style.display = "none";
        } else {
         inputs[2].style.display = "inline";
        }
        showres();
       });
      });

      inputs.forEach((element) => {
       element.addEventListener("keyup", () => {
        if (task == "cube") {
         if (!inputs[0].value || !inputs[1].value || !inputs[2].value)
          return;
        } else {
```

```
        if (!inputs[0].value || !inputs[1].value) return;
      }
      showres();
    });
  });
  </script>
 </body>
</html>
```

15) Display digital clock on button and on status bar.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q15</title>
  <style>
    *{
      padding: 0px;
      margin: 0px;
      box-sizing: border-box;
      color: white;
    }
    .container{
      width: 100%;
      height: 100dvh;
      background-color: black;
      display: flex;
      align-items: center;
    }
    .clock{
      border-radius: 5px;
      margin-inline: auto;
      display: flex;
      font-size: 3rem;
      padding: 20px;
      background-color: rgb(34, 34, 34);
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="clock">
      <div id="hour"></div>
      <div id="minute"></div>
      <div id="second"></div>
```

```
            <div id="ampm"></div>
          </div>
        </div>

        <script>
          let hourElem = document.querySelector('#hour');
          let minuteElem = document.querySelector('#minute');
          let secondElem = document.querySelector('#second');
          let ampmElem = document.querySelector('#ampm');

          function putdata(){
            let date = new Date()
            let hour = date.getHours() % 12;
            let minute = date.getMinutes();
            let second = date.getSeconds();
            let ampm = (date.getHours < 12) ? "AM" : "PM";
            if(second < 10) second = "0" + second;
            if(minute < 10) minute = "0" + minute;
            if(hour < 10) hour = "0" + hour;
            hourElem.innerHTML = hour + " :";
            minuteElem.innerHTML = `&nbsp${minute} : `;
            secondElem.innerHTML = `&nbsp${second} `;
            ampmElem.innerHTML = `&nbsp${ampm}`;
          };
          putdata();
          setInterval(putdata, 999);
        </script>
      </body>
    </html>
```

16) Write JavaScript code having two (number) textbox and one ADD button that display addition of two number in third –result text box, Apply proper validation

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Number Addition</title>
</head>
<body>
  <h1>Add Two Numbers</h1>

  <form id="additionForm">
    <label for="num1">Enter First Number: </label>
    <input type="text" id="num1" placeholder="First number">
    <br><br>
```

```
        <label for="num2">Enter Second Number: </label>
        <input type="text" id="num2" placeholder="Second number">
        <br><br>

        <button type="button" onclick="addNumbers()">ADD</button>
        <br><br>

        <label for="result">Result: </label>
        <input type="text" id="result" readonly>
    </form>

    <script>
        function addNumbers() {
            const num1 = document.getElementById("num1").value;
            const num2 = document.getElementById("num2").value;
            const resultBox = document.getElementById("result");
            if (!num1 || isNaN(num1)) {
                alert("Please enter a valid number for the first input.");
                return;
            }
            if (!num2 || isNaN(num2)) {
                alert("Please enter a valid number for the second input.");
                return;
            }
            const sum = parseFloat(num1) + parseFloat(num2);
            resultBox.value = sum;
        }
    </script>
</body>
</html>
```

17) Form with all the validations

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q17</title>
  <style>
    *{
      margin: 0px;
      padding: 0px;
      box-sizing: border-box;
    }
    .container{
      height: 100dvh;
      width: 100%;
      display: flex;
```

```
      align-items: center;
    }
    form{
      margin-inline: auto;
      padding: 20px;
      border-radius: 5px;
      display: flex;
      flex-direction: column;
      gap: 10px;
      background-color: rgb(233, 233, 233);
    }
    form > div{
      display: flex;
      flex-direction: column;
      gap: 5px;
    }
    input, button{
      all: unset;
      height: 35px;
      background-color: white;
      padding: 0px 10px;
    }
    button{
      background-color: green;
      color: white;
      text-align: center;
      border-radius: 5px;
    }
  </style>
</head>
<body>
  <div class="container">
    <form>
      <div>
        <label for="firstname">First Name</label>
        <input type="text" placeholder="Enter first name" id="firstname" />
      </div>
      <div>
        <label for="lastname">Last Name</label>
        <input type="text" id="lastname" placeholder="Enter last name" />
      </div>
      <div>
        <label for="password">Password</label>
        <input type="password" id="password" placeholder="Password" />
      </div>
      <div>
        <label for="confirmpassword">Confirm Password</label>
        <input type="password" id="confirmpassword" placeholder="Confirm Password" />
      </div>
      <div>
        <label for="email">Email</label>
        <input type="texts" id="email" placeholder="Email" />
```

```
        </div>
        <div>
          <button type="submit">Submit</button>
        </div>
      </form>
    </div>

<script>
    let form = document.querySelector('form');
    let inputs = document.querySelectorAll('input');
    let btn = document.querySelector('button');

    let emailreg = /^[a-zA-Z0-9._%+-]+@[a-zA-Z.-]+\.[a-zA-Z]{2,}$/;
    let passReg = /^^[a-zA-Z#@-_]{8,16}$/

    function checkvalid(){
      inputs.forEach((item, i)=>{
        let id = item.id;
        if(!item.value) return alert(`${id} field is neccessary`);
        if(id == 'fistname'){
          if(item.value.length < 4) return alert("first name must be longer than the 3 characters");
        }else if(id == 'lastname'){
          if(item.value.length < 4) return alert("last name must be longer than the 3 characters");
        }else if(id == 'email'){
          let testRes = emailreg.test(item.value);
          if(!testRes){
            return alert("Email does not have valid format");
          }else{
            console.log("email is correct ");
          }
        }else if(id == 'password'){
          console.log(inputs[i+1].value, item.value);
          if(item.value != inputs[i + 1].value){
            return alert("password and confirm password must be same");
          }
          let res = passReg.test(item.value);
          if(!res){
            alert("password does not match the proper format");
          }else{
            console.log("password matches format")
          }
        }
        btn.innerText = "submitted";
        btn.style.backgroundColor = "black"
        btn.style.color = "white"
      })
    }

    form.addEventListener('submit', (e)=>{
      e.preventDefault();
      checkvalid();
    })
```

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

18) Takes one number from user using prompt and display its square on screen and square root.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <script>
     let input;
     do{
       input = +prompt("Enter number to get the root and square root");
       if(!input || isNaN(input)) continue;
       document.write(`Square of the ${input} = ${(input * input).toFixed(3)}<br>Square
Root of the ${input} = ${Math.sqrt(input).toFixed(3)}`)
     }while(!input || isNaN(input));
   </script>
</body>
</html>
```

19) Takes input Fahrenheit temperature from user and convert it into Celsius

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Fahrenheit to Celsius Converter</title>
</head>
<body>
   <h1>Convert Fahrenheit to Celsius</h1>
```

```html
<form id="conversionForm">
  <label for="fahrenheit">Enter Fahrenheit Temperature: </label>
  <input type="text" id="fahrenheit" placeholder="Fahrenheit">
  <br><br>

  <button type="button" onclick="convertToCelsius()">Convert</button>
  <br><br>

  <label for="celsius">Celsius Temperature: </label>
  <input type="text" id="celsius" readonly>
</form>

<script>
  function convertToCelsius() {
    const fahrenheit = document.getElementById("fahrenheit").value;
    const celsiusBox = document.getElementById("celsius");
    if (!fahrenheit || isNaN(fahrenheit)) {
      alert("Please enter a valid Fahrenheit temperature.");
      return;
    }
    const celsius = (parseFloat(fahrenheit) - 32) * 5 / 9;
    celsiusBox.value = celsius.toFixed(2);
  }
</script>
</body>
</html>
```

20) change user input into uppercase and lower case using two button Uppercase & Lower Case

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q20</title>
</head>
<body>
  <div class="container">
    <div class="wrapper">
      <input type="text">
      <button id="upr">To UpperCase</button>
```

```html
        <button id="lwr">To lowerCase</button>
      </div>
   </div>

   <script>
     let uprBtn = document.querySelector('#upr');
     let lwrBtn = document.querySelector('#lwr');
     let input = document.querySelector('input');

     uprBtn.addEventListener("click", ()=>{
       input.value = input.value.toUpperCase();
     })
     lwrBtn.addEventListener("click", ()=>{
       input.value = input.value.toLowerCase();
     })
   </script>
</body>
</html>
```

21) Display welcome message using alert when page loaded and display message bye when page unloaded/closed.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q21</title>
 </head>
 <body>
  <div>
   <p></p>
  </div>
  <script>
   document.addEventListener("DOMContentLoaded", ()=>{
    alert("WELCOME !");
   })

   window.addEventListener("beforeunload", ()=>{
```

```
    alert("BYE BYE")
   })
  </script>
 </body>
</html>
```

22) Count number of occurrence of particular character

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Q22</title>
</head>
<body>
  <div>
    <form >
      <label for="str">Enter text</label>
      <br>
      <input type="text" id="str" placeholder="Enter the string ">
      <br>
      <br>
      <label for="char">Enter character to find occurance</label>
      <br>
      <input type="text" id="char" maxlength="1" placeholder="Enter the character">
      <br>
      <p id="res"></p>
    </form>
  </div>

  <script>
    let str = document.querySelector('#str');
    let char = document.querySelector('#char');
    let res = document.querySelector('#res');

    function showres(){
      let string = str.value;
      let charcter = char.value;
      if(!string || !charcter) return;
      let count = 0;
      for(let i = 0; i< string.length; i++){
```

```
          if(string[i] == charcter) count++;
        }
        res.innerHTML = `string  ${string} <br>character : ${charcter} <br> count : ${count}`
      }

      str.addEventListener("keyup",(e)=>{
        showres();
      });
      char.addEventListener('keyup', (e)=>{
        showres();
      })
</script>
</body>
</html>
```

23) Email validation, check whether email address is valid or not

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q23</title>
 </head>
 <body>
  <div>
   <label for="input">Enter the email to validate</label>
   <input type="text" id="input" />
   <p id="res"></p>
  </div>

  <script>
   let input = document.querySelector("input");
   let res = document.querySelector("p");
   let emailreg = /^[a-zA-Z0-9._%+-]+@[a-zA-Z.-]+\.[a-zA-Z]{2,}$/;

    input.addEventListener("change",(e)=>{
      let email = e.target.value;
      if(!email) return;
      let result = emailreg.test(email)
      if(result){
        res.innerText = `${email} is valid email`
        res.style.color = "green"
```

```
        }else{
          res.innerText = `${email} is not a valid email`
          res.style.color = "brown"
        }
      })

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

24) Print 11,22,33,44 upto (1 to N) Like 1^1 =1 2^2 =4.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Q24</title>
    <style>
     p {
       max-width: 100dvh;
       word-break: break-all;
     }
    </style>
  </head>
  <body>
    <div>
      <label for="slt">choose pattern</label>
      <br>
     <select id="slt">
      <option selected value="1122">11,22,33...</option>
      <option value="249">2,4,8,16...</option>
     </select>
     <br>
     <input type="number" placeholder="Enter the number" />
     <p id="res"></p>
    </div>

    <script>
     let input = document.querySelector("input");
     let res = document.querySelector("#res");
     let select = document.querySelector("select");
     let dbtime = 1000;
```

```javascript
    let dbtimeout;

    let task = select.value;

    select.addEventListener("change", (e) => {
      task = e.target.value;
      handleKeyup();
    });

    function printOne(number) {
      let result = "";
      for (let i = 11; i < number; i += 11) {
        result += `${i}, `;
      }
      res.innerHTML = result;
    }
    function printTwo(number){
      let result = "";
      for (let i = 11; i < number; i++) {
        result += `${i * 1}, `;
      }
      res.innerHTML = result;
    }

    function handleKeyup(e){
      if (dbtimeout) {
        clearTimeout(dbtimeout);
      }
      dbtimeout = setTimeout(() => {
        let number = +input.value;
        if (isNaN(number) || !number) return;
        if(task == '1122'){
          printOne(number)
        }else{
          printTwo(number);
        }
      }, dbtime);
    }

    input.addEventListener("keyup", handleKeyup);
  </script>
 </body>
</html>
```

25) Print various pyramids.

CODE:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Q25</title>
  <style>
    body{
        padding: 0px 40px;
    }
  </style>
 </head>
 <body>
  <div>
    <p id="res"></p>
  </div>

  <script>
   let res = document.querySelector("p");
   let pattern = "";

   //pattern one
   pattern = "Pattern One<br><br>"
   for (let i = 1; i <= 5; i++) {
    for (let j = 1; j <= 5; j++) {
        pattern += "*&nbsp&nbsp";
    }
    pattern += "<br>";
   }
   pattern += "<br><br>";
   res.innerHTML += pattern;

   //Pattern Two
   pattern = "Pattern Two<br><br>"
   for (let i = 1; i <= 5; i++) {
    for (let j = 1; j <= i; j++) {
        pattern += "*&nbsp&nbsp";
    }
    pattern += "<br>";
   }
   pattern += "<br><br>";
   res.innerHTML += pattern;

   //Pattern Three
   pattern = "Pattern Three<br><br>"
```

```
    for (let i = 0; i < 5; i++) {
     for (let j = 0; j < 5; j++) {
        if(i == 0 || i == 4 || j == 0 || j == 4){
           pattern += "*&nbsp&nbsp";
        }else{
           pattern += "&nbsp&nbsp&nbsp&nbsp";
        }
     }
     pattern += "<br>";
    }
    pattern += "<br><br>";
    res.innerHTML += pattern;
  </script>
 </body>
</html>
```