Q1)

Code: Main Frame

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Frames</title>
</head>
<body>
  <frameset row="100,*">
    <frame src="frame1.html" name="headerFrame" noresize>
    <frameset cols="200,*">
    <frame src="frame2.html" name="citiesFrame">
    <frame src="frame3.html" name="infoFrame">
  </frameset>
</body>
</html>
```

Frame1

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Frame 1</title>
</head>
<body>
    <h1>IT Industries in India</h1>
</body>
</html>
```

Frame2

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>frame2</title>
</head>
<body>
  <h1>City</h1>
  <ul>
```

```
    <li>Pune</li>
    <li>Mumbai</li>
  </ul>
</body>
</html>
```

Frame3

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>frame2</title>
</head>
<body>
  <h1>Pune</h1>
  <ul>
    <li>Infosys</li>
    <li>Persistent</li>
  </ul>
</body>
</html>
```

Output:

IT Industrties in INDIA

City

1. Pune

2. Mumbai

Pune

- Infosys
- Persistent

Q2)
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 College</title>
<style>
.container{
margin: 5rem auto;
 width: 95%;
background-color: #ae3535;
border-radius: 10px;
box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
overflow: hidden;
margin-bottom: 5rem;
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
text-align: center;
transition: background-color 0.3s;
&:hover{
background-color: #b86e40;
 }
}
body {
 background-image: url("clg.jpg");
background-size: cover;
background-repeat: no-repeat;
color: white;
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
text-align: center;
}
.header {
margin-top: 50px;
 }
 .header h1 {
 font-size: 3em;
 margin: 0;
}
 .header p {
font-size: 1.5em;
margin: 10px 0 20px 0;
 }
 .courses {
margin: 30px 0;
 }
 .courses div {
 margin: 10px;
 font-size: 1.2em;
}
 .scroll-text {
 margin: 30px 0;
 font-size: 1.5em;
 background-color: rgba(0, 0, 0, 0.6);
 padding: 10px;
 }
 .footer-image {
 margin: 50px 0;
```

```html
  }
 </style>
</head>
<body>
 <div class="container">
  <h1>G.H.Raisoni College Of Engineering & Management Wagholi Pune</h1><br>
 <p>New Gat No. 1200 , Domkhel Road , Wagholi , Pune 412207, Maharashtra State,  Number-+91-9604787185, +91-9604787186 Email-ghrcem.pune@raisoni.net</p>
</div>
<div class="courses">
 <div style="color: red; font-family: 'Courier New', Courier, monospace; font-style: italic;">Computer Science</div>
 <div style="color: green; font-family: 'Times New Roman', Times, serif; font-weight: bold;">MCA</div>
 <div style="color: blue; font-family: 'Verdana', sans-serif; text-decoration: underline;">MBA</div>
<div style="color: orange; font-family: 'Georgia', serif; font-variant: small-caps;">B. Tech.</div>
    <div style="color: purple; font-family: 'Tahoma', sans-serif; font-size: larger;">M. Tech.</div>
  </div>
     <div class="scroll-text">
<marquee behavior="scroll" direction="left">The G H Raisoni College of Engineering and Management is NAAC A+ accredited and affiliated to the Savitribai Phule University. </marquee>
</div>
  <div class="footer-image">
    <img src="clg.jpg" alt="G H Raisoni College" style="width: 200px;">
  </div>
</body>
</html>
```

Output :

Q3)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <title>create table using internal CSS </title>
   <style>
      body{
         text-align: -webkit-center;
         position: relative;
         font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
         font-size: 20px;
         padding-top: 5rem;
      }
      .table-frame tr td {
         font-size: 30px;
         font-weight: 900;
         padding: 20px;
      }
      .tr-frame1{
         background-color: #0edccb;
         color: #000;
      }
   </style>
</head>
<body>
    <table border="6" class="table-frame">
    <tr class="tr-frame1">
      <td>Country</td>
      <td colspan="2">Poulation (in Crores)</td>
    </tr>
  <tr>
      <tr>
        <td rowspan="3">India</td>
        <td>1998</td>
        <td>85</td>
</tr>
      <tr>
        <td>1999</td>
        <td>90</td>
      </tr>
      <tr>
          <td>2000</td>
          <td>100</td>
      </tr>
   </tr>
     <tr>
     <tr>
```

```
            <td rowspan="3">USA</td>
            <td>1998</td>
            <td>30</td>
         </tr>
         <tr>
            <td>1999</td>
            <td>35</td>
  </tr>
         <tr>
            <td>2000</td>
            <td>40</td>
         </tr>
</tr>
      <tr>
  <tr>
            <td rowspan="3">UK</td>
            <td>1998</td>
            <td>25</td>
  </tr>
         <tr>
            <td>1999</td>
            <td>30</td>
    </tr>
         <tr>
            <td>2000</td>
            <td>35</td>
  </tr>
      </tr>
      </table>
</body>
</html>
```

Output:

Country	Poulation (in Crores)	
India	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35

Q4)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>   <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Element of List</title>
</head>
<body >
  <ol >
    <li>DYP</li>
    <ul>
 <li>Courses</li>
       <ul>
          <li>BCS</li>
  <li>BCA</li>
       </ul>
</ul>
    <li>India</li>
    <ul>
      <li>Courses</li>
      <ul>
        <li>BCA</li>
        <li>MCS</li>
      </ul>
 </ul>
    <li>ATSS</li>
    <ul>
      <li>Courses</li>
      <ul>
      <li>BBA</li>
      <li>BCS</li>
      </ul>
 </ul>
   </ol>
</body>
</html>
```

Output:

1. DYP
   - Courses
     - BCS
     - BCA
2. Indira
   - Courses
     - BCA
     - MCS
3. ATSS
   - Courses
     - BBA
     - BCS

Q5)
Code :

```html
<!DOCTYPE html>
<html>
<head>
<title>Information of a Customer </title>
<style>
body{
 text-align: center;
 font-size: 30px;
}
form{
   margin-top: 20px;
   padding: 20px;
   background-color: lightblue;
   border: 3px black solid;
   border-radius: 5px;
   margin:0 auto ;
   width: 500px;
}
input{
  font-family: fangsong;
   font-size: 20px;
   padding: 10px;
   border-radius: 5px;
}
h1{
text-align: center;
font-size: 50px;
font-family: cursive;
 font-style: oblique;
 }
 .loc_opt{
   font-size: 20px;
   text-align: center;
   font-family: fangsong;
   font-weight: bold;
   color: #000000;
   cursor: pointer;
   background-color: #ffffff;
 }
 .sub{
   text-align: center;
   font-size: 20px;
   font-family: fangsong;
   color: #ffffff;
   cursor: pointer;
   background-color: #000000;
}
 .sub:hover{
   background-color: lightgreen;
   color: #0015ff;
   cursor: pointer;
 }
 .res{
   text-align: center;
   font-size: 20px;
   font-family: fangsong;
   color: #ffffff;
   cursor: pointer;
   background-color: #000000;
 }
 .res:hover{
```

```html
    background-color: lightgreen;
    color: #0015ff;
    cursor: pointer;
}
</style>
</head>
<body>
<h1>Booking of a Travel Plan</h1>
<form class="f-type">
<label for="cname">Customer Name :</label>
<input type="text" id="cname" name="cname" ><br><br>
<label for="address">Address :</label>
<input type="address" id="address" name="address" ><br><br>
<label for="number">Phone No. :</label>
<input type="number" name="phone" id="phone"><br><br>
<label for="gender">Gender :</label>
<input type="radio" name="gender" id="gender"> Male
<input type="radio" name="gender" id="gender"> Female <br><br>
<label for="season">Season :</label>
<input type="checkbox" name=" season" id="season" value="Winter">Winter
<input type="checkbox" name=" season" id="season" value="Spring">Spring
<input type="checkbox" name=" season" id="season" value="Summer">Summer <br><br>
<label for="location">Location Type :</label>
<select class="loc_opt" name="Location" size="1">
<option>Pune</option> <option>Ujjain</option> <option>Kashmir</option>  <option>Delhi</option>
 <option>Hyderabad</option></select><br><br>
<input class="sub" type="Submit" value="Submit">
<input class="res" type="Reset"><br><br>
</body>
</html>
```

Output:

Booking of a Travel Plan

Customer Name : [   ]

Address : [   ]

Phone No. : [   ]

Gender : ○ Male ○ Female

Season : ☐Winter ☐Spring ☐Summer

Location Type : [**Pune**   ▾]

[Submit] [Reset]

Q6)

Code :

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Ellipse using CSS</title>
  <style>
    body{
      background-color: #949797;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .ellipse_con{
      width: 300px;
      height: 150px;
      background-color: #0080ff;
      border-radius: 50%;
      display: flex;
      align-items: center;
      justify-content: center;
      color: white;
      text-align: center;
      font-family: Georgia, 'Times New Roman', Times, serif;
      font-size: 40px;
      padding: 20px;
  }
  </style>
</head>
<body>
  <div class="ellipse_con">I am an Ellipse </div>
</body>
</html>
```
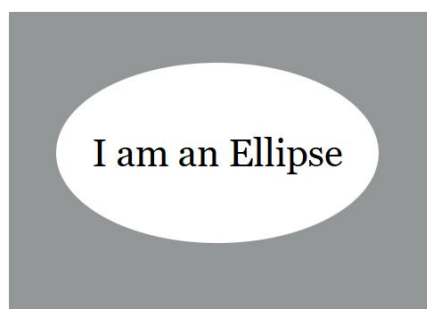
Output:

Q7)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calendar using HTML and CSS</title>
    <style>
    body {
     font-family: Arial, sans-serif;
     display: flex;
     justify-content: center;
     align-items: center;
     min-height: 100vh;
     background-color: #f4f4f9;
    }
    .calendar {
     width: 90%;
     max-width: 400px;
     background: #ffffff;
     border: 1px solid #000000;
     border-radius: 10px;
     box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
     overflow: hidden;
    }
    .calendar_header {
     text-align: center;
     background: #ffffff;
     color: rgb(0, 0, 0);
     padding: 15px;
     font-size: 20px;
     font-weight: bold;
    }
    .calendar_body {
     display: grid;
     grid-template-columns: repeat(7, 1fr);
     grid-auto-rows: 50px;
     text-align: center;
     font-size: 16px;
    }
    .day, .dates {
     display: flex;
     align-items: center;
     justify-content: center;
     border: 1px solid #000000;
    }
```

```html
    .day {
      background: #ffffff;
      font-weight: bold;
      color: #000;
    }
    .dates {
      background: #ffffff;
      transition: background 0.3s;
    }
    .dates:hover {
      background: #f1c40f;
      color: #ffffff;
      cursor: pointer;
    }
    </style>
</head>
<body>
    <div class="calendar">
      <div class="calendar_header">December 2024</div>
        <div class="calendar_body">
          <div class="day">Sun</div>
          <div class="day">Mon</div>
          <div class="day">Tue</div>
          <div class="day">Wed</div>
          <div class="day">Thu</div>
          <div class="day">Fri</div>
          <div class="day">Sat</div>
          <div class="dates">1</div>
          <div class="dates">2</div>
          <div class="dates">3</div>
          <div class="dates">4</div>
          <div class="dates">5</div>
          <div class="dates">6</div>
          <div class="dates">7</div>
          <div class="dates">8</div>
          <div class="dates">9</div>
          <div class="dates">10</div>
          <div class="dates">11</div>
          <div class="dates">12</div>
          <div class="dates">13</div>
          <div class="dates">14</div>
          <div class="dates">15</div>
          <div class="dates">16</div>
          <div class="dates">17</div>
          <div class="dates">18</div>
          <div class="dates">19</div>
          <div class="dates">20</div>
          <div class="dates">21</div>
```

```html
        <div class="dates">22</div>
        <div class="dates">23</div>
        <div class="dates">24</div>
        <div class="dates">25</div>
        <div class="dates">26</div>
        <div class="dates">27</div>
        <div class="dates">28</div>
        <div class="dates">29</div>
        <div class="dates">30</div>
        <div class="dates">31</div>
        <div class="dates"></div>
        <div class="dates"></div>
        <div class="dates"></div>
        <div class="dates"></div>
      </div>
    </div>
</body>
</html>
```

Output:

Q8)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Image Slider</title>
    <style>
body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 0;
 background-color: #bdbdbd;
 height: 100vh;
 margin: 0;
}
 .slider {
 position: relative;
 width: 100%;
 max-width: 50rem;
 margin: auto;
 overflow: hidden;
}
 .slides {
 display: flex;
 transition: transform 0.5s ease-in-out;
 }
.slide {
 min-width: 100%;
 box-sizing: border-box;
 }
.slide img {
 width: 100%;
 display: block;
 }
#slide1:checked ~ .slides {
 transform: translateX(0);
 }
 #slide2:checked ~ .slides {
transform: translateX(-100%);
 }
 #slide3:checked ~ .slides {
 transform: translateX(-200%);
 }
.navigation {
 position: absolute;
 bottom: 10px;
left: 50%;
```

```
transform: translateX(-50%);
}
.navigation label {
 cursor: pointer;
height: 10px;
 width: 10px;
 background-color: #bbb;
border-radius: 50%;
display: inline-block;
margin: 0 5px;
 transition: background-color 0.3s;
 }
</style>
</head>
<body>
   <div class="slider">
    <input type="radio" name="slider" id="slide1" checked>
<input type="radio" name="slider" id="slide2">
<input type="radio" name="slider" id="slide3">

<div class="slides">
<div class="slide" id="s1">
<img src="side.jpg" alt="Image 1">
</div>
 <div class="slide" id="s2">
 <img src="side1.jpg" alt="Image 2">
</div>
 <div class="slide" id="s3">
<img src="side2.jpg" alt="Image 3">
 </div>
</div>
   <div class="navigation">
   <label for="slide1"></label>
   <label for="slide2"></label>
   <label for="slide3"></label>
 </div>
 </div>
   </body>
   </html>
```

Output:

Q9)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Overlay text</title>
  <style>
    .img_part{
      position: relative;
      width: 100px;
      height: 100px;
    }
    .overlay {
      position: absolute;
      top: 50%;
      left: 50%;
      transform: translate(-50%, -50%);
      background-color: rgba(0, 0, 0, 0.7);
      color: white;
      padding: 20px;
      text-align: center;
      font-size: 24px;
      text-shadow: 2px 2px 4px rgb(255, 255, 255);
      animation: fade-in-out 2s infinite;      }
  </style>   </head>
<body>
  <section>
    <div class="img_part">
      <img src="img.jpg" alt="image">
    </div>
    <div class="overlay">
      <h1>Help others in need; life is about you being there for People</h1>
    </div>
  </section>
</body>
</html>
```
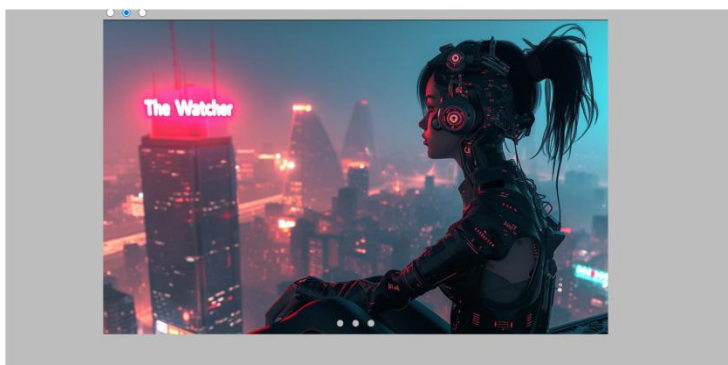
Output:

Q10)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Navigation</title>
   <style>
      body {
         font-family: cursive;
         font-size: 30px;
      }
      .nav_bar {
       background-color: #333;
       display: flex;
       justify-content: space-around;
       align-items: center;
       padding: 10px;
      }
      .nav_bar a {
         color: #fff;
         padding: 10px;
         text-decoration: none;
      }
      .nav_bar a:hover {
         background-color: #ffffff;
         color: #000000;
         transition: background-color 0.3s ease;
         cursor: pointer;
         box-shadow: 0 0 5px rgba(133, 130, 130, 0.2);
         box-sizing: border-box;
         border: 1px solid rgba(255, 255, 255, 0.2);
         border-radius: 5px;

      }
   </style>
</head>
<body>
   <section>
      <div class="nav_bar">
         <a href="#">Home</a>
         <a href="#">About me</a>
         <a href="#">Contact</a>
         <a href="#">Photo</a>
         <a href="#">Buy Items</a>
      </div>
   </section>
</body>
</html>
```
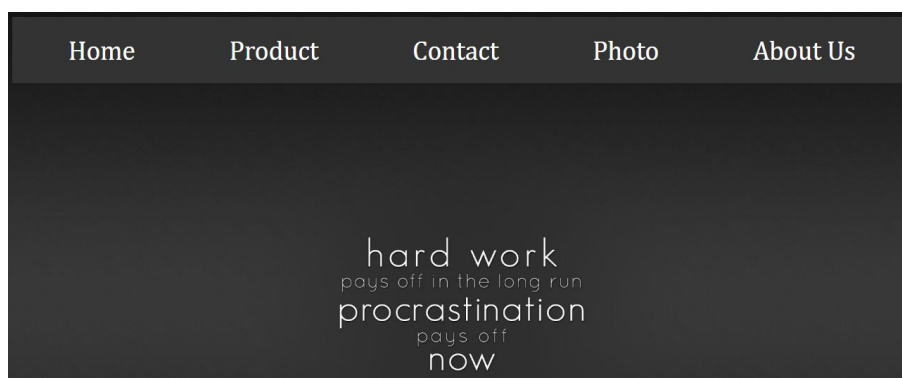
Output:

Q11
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sum of Digits</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f8ff;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .container {
      text-align: center;
      background: #ffffff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
      width: 300px;
    }
    input {
      padding: 10px;
      font-size: 16px;
      width: 80%;
      margin-bottom: 10px;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
    button {
      padding: 10px 20px;
      font-size: 16px;
      color: #fff;
      background-color: #007bff;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }
    button:hover {
      background-color: #0056b3;
    }
    .result {
      margin-top: 20px;
      font-size: 18px;
      color: #333;
    }
  </style>
```

```html
</head>
<body>
  <div class="container">
    <h2>Sum of Digits Calculator</h2>
    <input type="text" id="numberInput" placeholder="Enter a number" />
    <button onclick="calculateSum()">Calculate</button>
    <div class="result" id="result"></div>
  </div>

  <script>
    function calculateSum() {
      const input = document.getElementById("numberInput").value;
      if (!/^\d+$/.test(input)) {
        document.getElementById("result").innerText = "Please enter a valid number.";
        return;
      }

      let sum = 0;
      for (let char of input) {
        sum += parseInt(char, 10);
      }

      document.getElementById("result").innerText = `The sum of digits is: ${sum}`;
    }
  </script>
</body>
</html>
```
Output:

Q12)
Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Vowel Counter</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f7f7f7;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .container {
      text-align: center;
      background: #ffffff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
      width: 300px;
    }
    input {
      padding: 10px;
      font-size: 16px;
      width: 80%;
      margin-bottom: 10px;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
    button {
      padding: 10px 20px;
      font-size: 16px;
      color: #fff;
      background-color: #007bff;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }
    button:hover {
      background-color: #0056b3;
    }
    .result {
      margin-top: 20px;
      font-size: 18px;
      color: #333;
    }
  </style>
```

```html
</head>
<body>
  <div class="container">
    <h2>Vowel Counter</h2>
    <input type="text" id="stringInput" placeholder="Enter a string" />
    <button onclick="countVowels()">Count Vowels</button>
    <div class="result" id="result"></div>
  </div>

  <script>
    function countVowels() {
      const input = document.getElementById("stringInput").value;
      if (!input) {
        document.getElementById("result").innerText = "Please enter a string.";
        return;
      }

      const vowels = 'aeiouAEIOU';
      let count = 0;

      for (let char of input) {
        if (vowels.includes(char)) {
          count++;
        }
      }

      document.getElementById("result").innerText = `The number of vowels is: ${count}`;
    }
  </script>
</body>
</html>
```
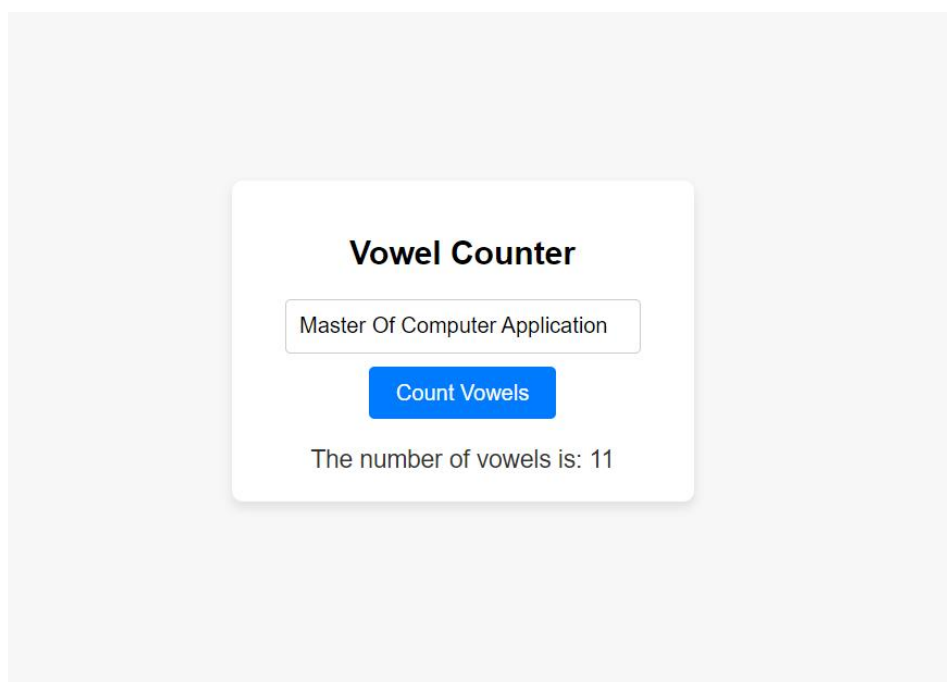**Output :**

Q13)

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Factors of a Number</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #eef5ff;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        .container {
            background: #ffffff;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
            text-align: center;
            width: 350px;
        }
        input {
            padding: 10px;
            font-size: 16px;
            width: 80%;
            margin-bottom: 15px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
        button {
            padding: 10px 20px;
            font-size: 16px;
            color: #fff;
            background-color: #007bff;
            border: none;
            border-radius: 4px;
            cursor: pointer;
        }
        button:hover {
            background-color: #0056b3;
        }
        .result {
            margin-top: 20px;
            font-size: 18px;
            color: #333;
        }
    </style>
</head>
<body>
    <div class="container">
        <h2>Factors Finder</h2>
        <input type="text" id="numberInput" placeholder="Enter a number" />
        <button onclick="findFactors()">Find Factors</button>
        <div class="result" id="result"></div>
    </div>

    <script>
        function findFactors() {
```

```
        const input = document.getElementById("numberInput").value;
        const resultDiv = document.getElementById("result");

        // Validate the input
        if (!/^\d+$/.test(input) || parseInt(input) <= 0) {
           resultDiv.innerText = "Please enter a valid positive number.";
           return;
        }

        const number = parseInt(input);
        const factors = [];

        // Find factors
        for (let i = 1; i <= number; i++) {
           if (number % i === 0) {
              factors.push(i);
           }
        }

        // Display factors
        resultDiv.innerText = `Factors of ${number} are: ${factors.join(", ")}`;
      }
   </script>
</body>
</html>
```

Output :

Factors Finder

```
50
```

Find Factors

Factors of 50 are: 1, 2, 5, 10, 25, 50

Q14)
Code :
```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Digital Clock & Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f0f8ff;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }
    .container {
      background: #ffffff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
      text-align: center;
      width: 350px;
    }
    .clock {
      font-size: 24px;
      font-weight: bold;
      margin-bottom: 20px;
      color: #007bff;
    }
    .calculator {
      display: grid;
      grid-template-columns: repeat(4, 1fr);
      gap: 10px;
      margin-top: 20px;
    }
    input {
      font-size: 18px;
      padding: 10px;
      width: 100%;
      margin-bottom: 15px;
      border: 1px solid #ccc;
      border-radius: 4px;
      text-align: right;
    }
    button {
      font-size: 18px;
      padding: 10px;
      background-color: #007bff;
      color: white;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }
    button:hover {
      background-color: #0056b3;
    }
    .wide {
      grid-column: span 2;
    }
```

```html
    </style>
  </head>
  <body>
    <div class="container">
      <!-- Digital Clock -->
      <div class="clock" id="digitalClock">00:00:00</div>

      <!-- Calculator -->
      <input type="text" id="calcDisplay" readonly placeholder="0" />
      <div class="calculator">
        <button onclick="appendNumber('7')">7</button>
        <button onclick="appendNumber('8')">8</button>
        <button onclick="appendNumber('9')">9</button>
        <button onclick="setOperation('/')">/</button>
        <button onclick="appendNumber('4')">4</button>
        <button onclick="appendNumber('5')">5</button>
        <button onclick="appendNumber('6')">6</button>
        <button onclick="setOperation('*')">*</button>
        <button onclick="appendNumber('1')">1</button>
        <button onclick="appendNumber('2')">2</button>
        <button onclick="appendNumber('3')">3</button>
        <button onclick="setOperation('-')">-</button>
        <button class="wide" onclick="appendNumber('0')">0</button>
        <button onclick="setOperation('+')">+</button>
        <button onclick="clearDisplay()">C</button>
        <button onclick="calculate()">=</button>
      </div>
    </div>

    <script>
      // Digital Clock
      function updateClock() {
        const now = new Date();
        const hours = String(now.getHours()).padStart(2, '0');
        const minutes = String(now.getMinutes()).padStart(2, '0');
        const seconds = String(now.getSeconds()).padStart(2, '0');
        document.getElementById("digitalClock").innerText = `${hours}:${minutes}:${seconds}`;
      }
      setInterval(updateClock, 1000);
      updateClock();

      // Calculator Logic
      let currentInput = '';
      let currentOperation = '';
      let previousValue = '';

      function appendNumber(number) {
        currentInput += number;
        document.getElementById("calcDisplay").value = currentInput;
      }

      function setOperation(operation) {
        if (currentInput === '') return;
        previousValue = currentInput;
        currentOperation = operation;
        currentInput = '';
      }

      function clearDisplay() {
        currentInput = '';
        currentOperation = '';
        previousValue = '';
        document.getElementById("calcDisplay").value = '0';
```

```javascript
    }

    function calculate() {
      if (currentInput === '' || previousValue === '' || currentOperation === '') return;
      let result;
      const num1 = parseFloat(previousValue);
      const num2 = parseFloat(currentInput);

      switch (currentOperation) {
        case '+':
          result = num1 + num2;
          break;
        case '-':
          result = num1 - num2;
          break;
        case '*':
          result = num1 * num2;
          break;
        case '/':
          result = num2 !== 0 ? num1 / num2 : 'Error';
          break;
        default:
          return;
      }

      document.getElementById("calcDisplay").value = result;
      currentInput = result.toString();
      previousValue = '';
      currentOperation = '';
    }
  </script>
</body>
</html>
```

Output :

Q15
Code :

DATA USED FOR DASHBOARD

Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Region	Product ID	Category	Sub-Category	Sales	Quantity	Profit
CA-2019-160304	43466	43472	Standard Class	BM-11575	Brendan Murry	Corporate	East	FUR-BO-10004709	Furniture	Bookcases	73.94	1	28.2668
CA-2019-160304	43467	43472	Standard Class	BM-11575	Brendan Murry	Corporate	East	FUR-BO-10004709	Furniture	Bookcases	173.94	3	38.2668
CA-2019-160304	43467	43472	Standard Class	BM-11575	Brendan Murry	Corporate	East	TEC-PH-10000455	Technology	Phones	231.98	2	67.2742
CA-2019-125206	43468	43470	First Class	LR-16915	Lena Radford	Consumer	West	OFF-ST-10003692	Office Supplies	Storage	114.46	2	28.615
US-2019-116365	43468	43473	Standard Class	CA-12310	Christine Abelman	Corporate	Central	TEC-AC-10002217	Technology	Accessories	30.08	2	-5.264
US-2019-116365	43468	43473	Standard Class	CA-12310	Christine Abelman	Corporate	Central	TEC-AC-10002942	Technology	Accessories	165.6	3	-6.21
US-2019-116365	43468	43473	Standard Class	CA-12310	Christine Abelman	Corporate	Central	TEC-PH-10002890	Technology	Phones	180.96	5	13.572
CA-2019-105207	43468	43473	Standard Class	BO-11350	Bill Overfelt	Corporate	Central	FUR-TA-10000617	Furniture	Tables	1592.85	7	350.427
CA-2019-105207	43468	43473	Standard Class	BO-11350	Bill Overfelt	Corporate	Central	OFF-BI-10004364	Office Supplies	Binders	11.88	2	5.346
US-2019-164630	43469	43474	Standard Class	EB-13975	Erica Bern	Corporate	South	TEC-CO-10000971	Technology	Copiers	959.968	4	119.996
CA-2019-158211	43469	43473	Standard Class	BP-11185	Ben Peterman	Corporate	East	OFF-AR-10004078	Office Supplies	Art	4.672	1	0.584
CA-2019-158211	43469	43473	Standard Class	BP-11185	Ben Peterman	Corporate	East	OFF-BI-10002026	Office Supplies	Binders	104.58	6	-80.178
CA-2019-134474	43470	43472	Second Class	AJ-10795	Anthony Johnson	Corporate	South	TEC-AC-10001714	Technology	Accessories	191.472	6	40.6878
CA-2019-134474	43470	43472	Second Class	AJ-10795	Anthony Johnson	Corporate	South	OFF-AR-10003958	Office Supplies	Art	5.248	2	0.5904
CA-2019-134474	43470	43472	Second Class	AJ-10795	Anthony Johnson	Corporate	South	TEC-PH-10002923	Technology	Phones	59.184	2	5.1786
CA-2019-101938	43472	43477	Standard Class	DW-13480	Dianna Wilson	Home Office	West	OFF-AR-10003696	Office Supplies	Art	34.58	1	10.0282
CA-2019-158806	43472	43476	Standard Class	NM-18520	Neoma Murray	Consumer	Central	FUR-FU-10004270	Furniture	Furnishings	23.076	3	-10.9611

| CA-2019-158806 | 43472 | 43476 | Standard Class | NM-18520 | Neoma Murray | Consumer | Central | OFF-PA-10004621 | Office Supplies | Paper | 25.92 | 5 | 9.072 |
| US-2019-100461 | 43473 | 43477 | Standard Class | JO-15145 | Jack O'Briant | Corporate | Central | FUR-BO-10002545 | Furniture | Bookcases | 1565.88 | 6 | 407.1288 |

Output:-