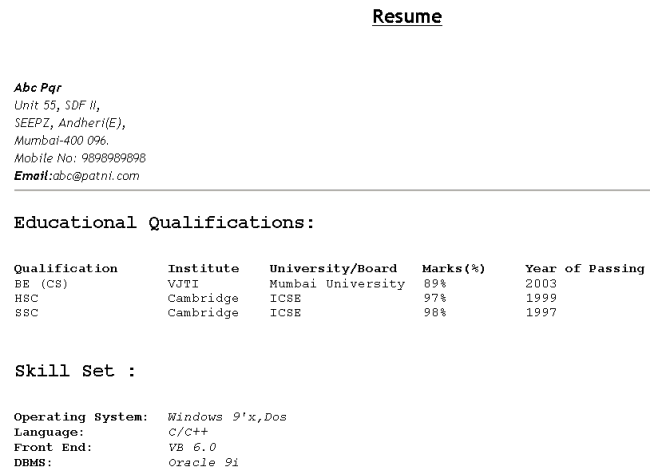
Lab Assignments:1

HTML:

Problem statement-1 : Create your resume page as per the format shown in the figure**.**



Resume

Abc Pqr
Unit 55, SDF II,
SEEPZ, Andheri(E),
Mumbai-400 096.
Mobile No: 9898989898
Email:*abc@patni.com*

Educational Qualifications:

Qualification	Institute	University/Board	Marks(%)	Year of Passing
BE (CS)	VJTI	Mumbai University	89%	2003
HSC	Cambridge	ICSE	97%	1999
SSC	Cambridge	ICSE	98%	1997

Skill Set :

Operating System:	*Windows 9'x,Dos*
Language:	*C/C++*
Front End:	*VB 6.0*
DBMS:	*Oracle 9i*

```
<html>
<head>
    <title>My Resume</title>
</head>
<body>
    <h2 align="center"><u>Resume</u></h2>

    <p><i>
        <b>Abc Pqr</b><br>
        Unit 55, SDF II,<br>
        SEEPZ, Andheri(E),<br>
        Mumbai-400096<br>
        Mobile No: 1234567890<br>
        Email: ajffk@gmail.com
    </i></p>

    <hr>

    <h3>Educational Qualifications:</h3>
    <table  cellpadding="8" >
        <tr>
            <th>Qualification</th>
            <th>Institute</th>
            <th>University/Board</th>
            <th>Marks(%)</th>
            <th>Year of Passing</th>
        </tr>
        <tr>
            <td>BE (CS)</td>
            <td>VJTI</td>
            <td>Mumbai University</td>
```

```
            <td>89%</td>
            <td>2003</td>
        </tr>
        <tr>
            <td>HSC</td>
            <td>Cambridge</td>
            <td>ICSE</td>
            <td>97%</td>
            <td>1999</td>
        </tr>
        <tr>
            <td>SSC</td>
            <td>Cambridge</td>
            <td>ICSE</td>
            <td>98%</td>
            <td>1997</td>
        </tr>
    </table>

    <h3>Skill Set:</h3>
    <p>
        <b>Operating System:</b> Windows 9x, DOS<br>
        <b>Language:</b> C/C++<br>
        <b>Front End:</b> VB 6.0<br>
        <b>DBMS:</b> Oracle 9i
    </p>

</body>
</html>
```

Problem statement-2 : Create a web page to display a list as shown in the figure:

Nested List

I. Background Skills
   A. Unix Commands
   B. Vim Test Editors

II. HTML
   A. Minimal Page
   B. Headings
   C. Elements
   D. Lists
      i. Unordered
      ii. Ordered
      iii. Definition
      iv. Nested
   E. Links
      i. Absolute
      ii. Relative
   F. Images

III. CSS
   A. Anatomy
   B. Basic Selectors
      i. Element
      ii. Class
      iii. ID
      iv. Group
   C. The DOM
   D. Advanced Selectors

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
    "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
    <title>Nested List</title>
</head>
<body>

    <h2><u>Nested List</u></h2>

    <ol type="I">
        <li>Background Skills
            <ol type="A">
                <li>Unix Commands</li>
                <li>Vim Test Editors</li>
            </ol>
        </li>

        <li>HTML
            <ol type="A">
                <li>Minimal Page</li>
                <li>Headings</li>
                <li>Elements</li>
                <li>Lists
                    <ol type="i">
                        <li>Unordered</li>
                        <li>Ordered</li>
                        <li>Definition</li>
                        <li>Nested</li>
                    </ol>
                </li>
                <li>Links
                    <ol type="i">
                        <li>Absolute</li>
                        <li>Relative</li>
                    </ol>
                </li>
                <li>Images</li>
            </ol>
        </li>

        <li>CSS
            <ol type="A">
                <li>Anatomy</li>
                <li>Basic Selectors
                    <ol type="i">
                        <li>Element</li>
                        <li>Class</li>
                        <li>ID</li>
                        <li>Group</li>
                    </ol>
```

```
                </li>
                <li>The DOM</li>
                <li>Advanced Selectors</li>
            </ol>
        </li>
    </ol>

</body>
</html>
```

Problem statement-3.a : Create a web page to display tables as shown in the figures below.

User Name	Education	Location
Praveen Kumar	B.Tech	Guntur
Mahendra Dasari	CA	Chennai
Nagaraju Dasari	MCA	USA
Sateesh Alavala	MD	Vizag
Sudheer	B.Tech	Kakinada

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        th {
            background-color: #8B4513;
        }
    </style>
</head>
<body>
    <table cellpadding="8" border="1" >

        <tr>
            <th>User Name</th>
            <th>Education</th>
            <th>Location</th>
        </tr>
        <tr>
            <td>Praveen Kumar</td>
            <td>B.Tech</td>
            <td>Guntur</td>
        </tr>
         <tr>
            <td>Mahendra Dasari</td>
            <td>CA</td>
            <td>Chennai</td>
        </tr>
         <tr>
            <td>Nagarjun Dasari</td>
```

```
            <td>MCA</td>
            <td>USA</td>
        </tr>
         <tr>
            <td>Sateesh Alavala</td>
            <td>MD</td>
            <td>Vizag</td>
        </tr>
         <tr>
            <td>Sudheer</td>
            <td>B.TECh</td>
            <td>Kakinada</td>
        </tr>
    </table>
</body>
</html>
```

3.b

STATE	
East	Orissa
	Bihar
	West Bengal
	Mizoram
West	Maharashtra
	Gujrat
	Karnataka
South	Andhra Pradesh
	Tamil Nadu
	Kerala
North	Jammu & Kashmir
	Himachal Pradesh
	Punjab
	Uttar Pradesh

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>State Table</title>
    <style>
        table {
            border-collapse: collapse;
            width: 70%;
            margin: 20px auto;
            text-align: center;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
        }
        th {
            background-color: #8B4513;
            color: white;
        }
```

```
        .region {
            background-color: #D2B48C;
            font-weight: bold;
        }
        .east {
            background-color: #FFDEAD;
        }
        .west {
            background-color: #FFE4B5;
        }
        .south {
            background-color: #FFDAB9;
        }
        .north {
            background-color: #FFEFD5;
        }
    </style>
</head>
<body>

    <table cellpadding="8">
        <tr>
            <th colspan="2">STATE</th>
        </tr>
        <tr>
            <td class="region" rowspan="4">East</td>
            <td class="east">Orissa</td>

        <tr><td class="east">Bihar</td></tr>
        <tr><td class="east">West Bengal</td></tr>
        <tr><td class="east">Mizoram</td></tr>

        <tr>
            <td class="region" rowspan="3">West</td>
            <td class="west">Maharashtra</td>
        </tr>
        <tr><td class="west">Gujarat</td></tr>
        <tr><td class="west">Karnataka</td></tr>

        <tr>
            <td class="region" rowspan="3">South</td>
            <td class="south">Tamil Nadu</td>
        </tr>
        <tr><td class="south">Kerala</td></tr>
        <tr><td class="south">Andhra Pradesh</td></tr>

        <tr>
            <td class="region" rowspan="4">North</td>
            <td class="north">Jammu & Kashmir</td>
        </tr>
        <tr><td class="north">Himachal Pradesh</td></tr>
```

```
        <tr><td class="north">Punjab</td></tr>
        <tr><td class="north">Uttar Pradesh</td></tr>
    </table>

</body>
</html>
```

3.c

Flight Schedule				
Flight Number:	From:	To:	Departure:	Arrival:
BA 3451	Heathrow	Nuremberg	19:20	19:50
BA 1254	Luton	Alicante	19:40	20:50
LH 331	Heathrow	Hamburg	20:00	20:20
				Total: 3 flights

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Flight Schedule</title>
    <style>
  body {
    font-family: Arial, sans-serif;
  }

  table {
    border-collapse: collapse;
    width: 600px;
    margin: 30px auto;
    border: 1px solid #000;
  }

  caption {
    text-align: left;
    font-weight: bold;
    background-color: #C0C0C0;
    padding: 8px;
    border-bottom: 1px solid #000;
  }

  th, td {
    border: 1px solid #000;
    padding: 6px 10px;
    text-align: left;
  }

  th {
    background-color: #99CCFF;
  }
```

```
  tr:nth-child(even) td {
    background-color: #E0E0E0;
  }

  tr:nth-child(odd) td {
    background-color: #F5F5F5;
  }

  td:first-child {
    color: #0033CC;
    font-weight: bold;
  }

  tfoot td {
    background-color: #336699;
    color: white;
    text-align: right;
    font-weight: bold;
  }
</style>
</head>
<body>
    <table cellpadding="8" border="1" >
      <caption>Flight Schedule</caption>
     <thead>
        <tr>
            <th>Flight No</th>
            <th>From</th>
            <th>To</th>
            <th>Departure</th>
            <th>Arrival</th>
        </tr>
     </thead>
       <tbody>
        <tr>
            <td>BA 3451</td>
            <td>Heathrow</td>
            <td>Nuremberg</td>
            <td>19:20 AM</td>
            <td>19:50 PM</td>
        </tr>
         <tr>
            <td>BA 1254</td>
            <td>Luton</td>
            <td>Alicante</td>
            <td>19:40 AM</td>
            <td>20:50 PM</td>
        </tr>
         <tr>
            <td>LH 331</td>
```

```
            <td>Heathrow</td>
            <td>Hamburg</td>
            <td>20:00 AM</td>
            <td>20:20 PM</td>
        </tr>
       </tbody>
       <tfoot>
        <td colspan="5">Total:3 Flights</td>
       </tfoot>
</body>
</html>
```

3.d: Create a web page to display tables as shown in the figures below. Clicking on link should lead the user to another document that displays a brief description of the book and review comments.

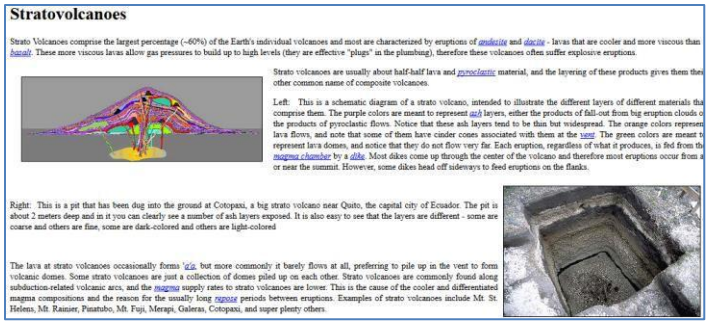
List of Java Books

Book Title	Author	Book Price
Core Java	Cay Horstman	400
Beginning Java	Ivar Horton	600
Learning Java	Kishori Shahane	400
Java Cookbook	John Keller	800

```
<!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>
    <table border="1">
        <tr>
            <th>Book Title</th>
            <th>Author</th>
            <th>Book Price</th>
        </tr>
        <tr>
            <td>Core Java</td>
            <td> Cay Horstmann</td>
            <td>400</td>
        </tr>
         <tr>
            <td>Beginning Java</td>
            <td>lvar Horton</td>
            <td>600</td>
        </tr>
         <tr>
            <td>Learning Java</td>
            <td>Kishori Shahane</td>
            <td>400</td>
```

```
        </tr>
         <tr>
            <td>Java Cookbook</td>
            <td>John Keller</td>
            <td>800</td>
        </tr>
</body>
</html>
```

Problem statement-4 : Create a Web page on any particular topic. Be sure to bring images in like the sample web page below.



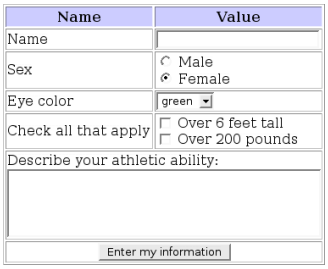

```
<!DOCTYPE html>
<html>
<head>
    <title>The Solar System</title>

    <style>
        body {
            font-family: Georgia, "Times New Roman", serif;
            margin: 40px;
            background-color: #f5f5f5;
        }

        .page-box {
            background: white;
            padding: 20px;
            border: 2px solid #4a6fa5;
        }

        h1 {
            margin-top: 0;
            color: #2b3e5c;
        }

        .img-left {
            float: left;
            width: 45%;
            margin-right: 15px;
            margin-bottom: 10px;
```

```
        }

        .img-right {
            float: right;
            width: 45%;
            margin-left: 15px;
            margin-bottom: 10px;
        }

        p {
            text-align: justify;
            line-height: 1.45;
        }

        .clear {
            clear: both;
        }
    </style>
</head>

<body>

<div class="page-box">

    <h1>The Solar System</h1>

    <p>
        The Solar System is a vast and remarkable collection of celestial objects
bound together by the gravitational pull of the Sun.
        It includes eight major planets, numerous moons, dwarf planets, asteroids,
comets, and countless smaller objects.
        Formed about 4.6 billion years ago from a giant cloud of gas and dust, the
Solar System demonstrates the dynamic processes
        that shape planetary formation, orbital motion, and cosmic evolution.
    </p>

    <img src="https://upload.wikimedia.org/wikipedia/commons/c/c3/Solar_sys8.jpg"
class="img-left">

    <p>
        The innermost region consists of the terrestrial planets—Mercury, Venus,
Earth, and Mars—composed mostly of rock and metal.
        These planets are relatively small but dense. Beyond them lies the asteroid
belt, populated by rocky debris left over from
        the early Solar System. Farther out are the gas giants Jupiter and Saturn,
and the ice giants Uranus and Neptune.
        These planets are massive, have many moons, and possess complex ring
systems.
    </p>
```

```
    <img
src="https://upload.wikimedia.org/wikipedia/commons/9/95/The_Solar_System.jpg"
class="img-right">

    <p>
        At the outer boundaries lies the Kuiper Belt, home to dwarf planets like
Pluto, and beyond that the Oort Cloud—an enormous
        spherical shell of icy bodies thought to be the source of long-period
comets. The Solar System continues to be a subject of
        scientific discovery as probes and telescopes explore its distant regions.
    </p>

    <div class="clear"></div>

</div>

</body>
</html>
```

Problem statement-5: Create the two web pages to display as shown in the figures below

5-a:

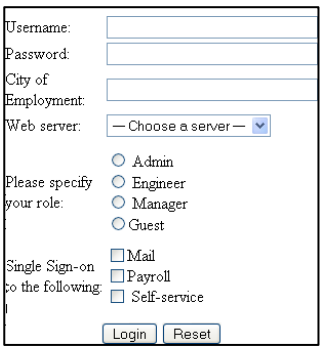



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        table,th,td {
            border:1px solid black;
            border-collapse: collapse;
            padding:10px;
        }
        th {
            background-color: blueviolet;
        }
    </style>
    </head>
    <body>
```

```
    <table>
    <thead>
        <tr>
    <th>Name</th>
    <th>Value</th>
    </tr>
    </thead>
    <tbody>
        <tr>
            <td>Name</td>
            <td><input type="text" name="name" ></td>
        </tr>
        <tr>
            <td>Sex</td>
            <td><input type="radio" id="male" name="sex" value="male">
                <label for="male">Male</label><br>
                <input type="radio" id="female" name="sex" value="female">
                <label for="female">Female</label>
            </td>
        </tr>
        <tr>
            <td> Eye Color</td>
         <td>
            <select name="eye color" id="eye color">
                <option value="blue">Blue</option>
                <option value="green">Green</option>
                <option value="brown">Brown</option>
                <option value="black">Black</option>
            </select>
            </td>
            <tr>
                <td>Check all that apply:</td>
            <td>
                <input type="checkbox" id="over 6 feet" name="attributes"
value="over 6 feet">
                <label for="over 6 feet"> Over 6 feet</label><br>
                <input type="checkbox" id="over 200 pounds" name="attributes"
value="over 200 pounds">
                <label for="over 200 pounds"> Over 200 pounds</label><br>
                </td>
            </tr>
<tr>
    <td>Describe your athletic abilities:</td>
    <td><textarea name="athletic_abilities" rows="4" cols="50"></textarea></td>

</tr>
<tr>
    <td colspan="2" style="text-align: center;" >
        <input type="submit" placeholder="Enter my information">
    </td>
</tr>
```

```
    </tbody >
    </table>
</body>
</html>
```

5-b:




```
<!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>
<style>
    .container{
        width:400px;
        margin:auto;
        padding:20px;
        border:1px solid black;
        border-radius:5px;
        box-shadow:2px 2px 12px rgba(0,0,0,0.2);
        font-family:Arial, sans-serif;
    }
    .group{
        margin-bottom:15px;
    }
    label{
        display:block;
        margin-bottom:5px;
        font-weight:bold;
    }
    input[type="text"],
    input[type="password"],
    select{
        width:100%;
        padding:8px;
```

```
        box-sizing:border-box;
        border:1px solid #ccc;
        border-radius:4px;
    }
    .Button{
        text-align:center;
    }
    button{
        padding:10px 15px;
        margin:5px;
        border:none;
        border-radius:4px;
        background-color:#4CAF50;
        color:white;
        cursor:pointer;
    }
    button[type="Reset"]{
        background-color:#f44336;
    }
</style>
<body>
  <div class="container">
   <form >
<div class="group">
    <lable for="Username">Username:</lable>
    <input type="text" id="Username" name="Username" required>

</div>
<div class="group">
    <lable for="Password">Password:</lable>
    <input type="password" id="Password" name="Password" required>
</div>
<div class="group">
    <lable for="City of Employment">City of Employment:</lable>
    <input type="text" id="City of Employment" name="City of Employment" required>
</div>

<div class="group">
    <lable for="Web Server">Web Server:</lable>
    <select id="Web Server" name="Web Server" >
        <option value="--Choose a Server--">--Choose a Server--</option>
        <option value="Nginx">Nginx</option>
        <option value="IIS">IIS</option>
        <option value="LiteSpeed">LiteSpeed</option>
        </select>
</div>
     <div class="form-group">
        <label>Please specify your role:</label><br>
        <input type="radio" name="role" value="admin"> Admin<br>
        <input type="radio" name="role" value="engineer"> Engineer<br>
        <input type="radio" name="role" value="manager"> Manager<br>
```

```
        <input type="radio" name="role" value="guest"> Guest
      </div>

      <div class="group">
        <lable>Single Sign-on The Following</lable><br>
         <input type="checkbox" name="sso" value="mail"> Mail<br>
        <input type="checkbox" name="sso" value="payroll"> Payroll<br>
        <input type="checkbox" name="sso" value="selfservice"> Self-service
            </div>
            <div class="Button">
                <button type="Login">Submit</button>

                <button type="Reset">Reset</button>
            </div>

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

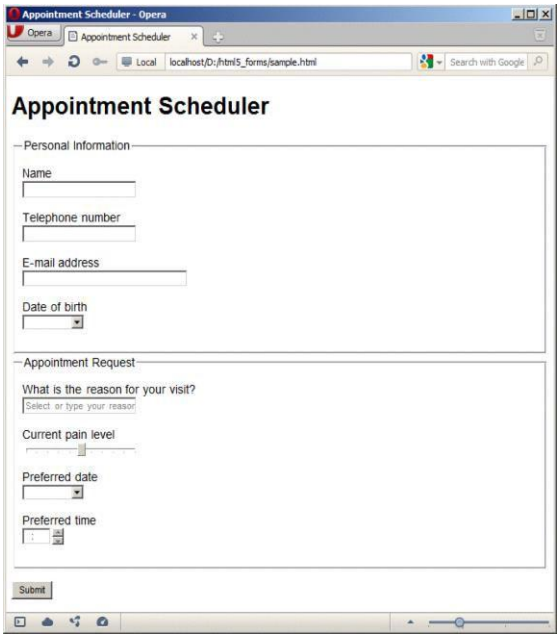
5-c :


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

</head>
<body>
    <fieldset style="width: 20%; align-items: center;">
    <form >
    <label for="Register">Register</label><br><br>
    <label for="Kindly fill in This Form To Register">Kindly fill in This Form To
Register</label><br><br>

    <label for="Username">Username</label><br>
    <input type="text" id="Username" name="Username"><br>
    <label for="Email">Email</label><br>
```

```
    <input type="email" id="Email" name="Email"><br>
    <label for="Password">Password</label><br>
    <input type="password" id="Password" name="Password"><br>
    <label for="Confirm Password">Confirm Password</label><br>
    <input type="password" id="Confirm Password" name="Confirm Password"><br><br>

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

</form></fieldset>

</body>
</html>
```

HTML5 + CSS:

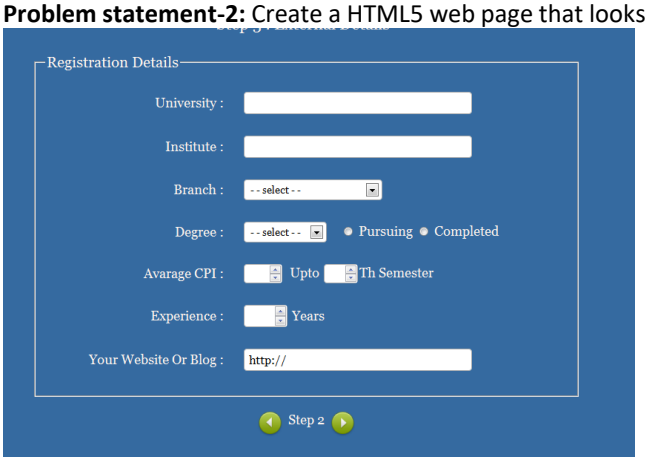
Problem statement-1: Create a HTML5 web page that looks like:




```
<!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>

    <center>
         <label><h2>Appointment Scheduler</h2></label><br>
    <fieldset style="width: 50%; align-items: center;">
    <legend>Personal Information</legend>
    <td>Name</td><br>
    <td><input type="text" name="name" ></td><br>
```

```
    <td>Telephone number</td><br>
    <td><input type="text" name="telephone" ></td><br>

    <td>E-mail address</td><br>
    <td><input type="text" name="email" ></td><br>

     <td>Date Of Birth</td><br>
    <td><input type="date" name="dob" ></td><br>

    </fieldset>

    <fieldset style="width: 50%; align-items: center;">
        <legend>Appointment Request</legend>

    <td>What is the reason for your visit?</td><br>
    <td><input type="text" name="reason" ></td><br>

    <td>Current Pain Level</td><br>
    <td><input type="range" name="pain_level" min="0" max="10"></td><br>

     <td>Preferred Date</td><br>
    <td><input type="date" name="preferred_date" ></td><br>

    <td>Preferred Time</td><br>
    <td><input type="time" name="preferred_time" ></td><br>
    </fieldset>
  </center>
</body>
</html>
```

Problem statement-2: Create a HTML5 web page that looks like: (make use of CSS too)



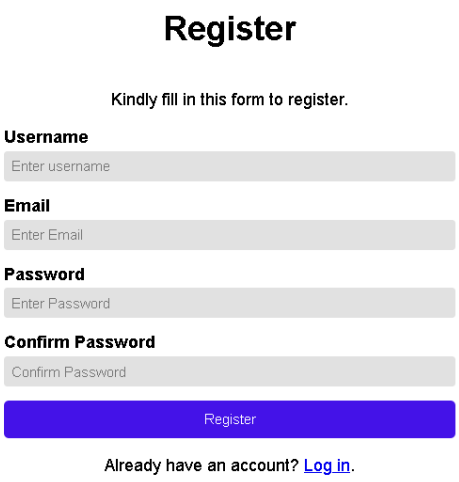

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.5.0/css/all.min.css">
</head>

<body style="background-color: rgba(12, 60, 165, 0.733);"></body>
<!-- <button class="image-button">click me </button> -->

<body>
    <center>
        <form action="">
            <div>
                <fieldset
                    style="width: 50%; background-color: rgb(170, 100, 43); color:
white; align-items: center;">
                    <legend>Registration Details</legend>
                    <table cellspacing="20">
                        <tr>
                            <td style="text-align: right;">University:</td>
                            <td><input type="text" name="" id="" autofocus></td>
                        </tr>
                        <tr>
                            <td style="text-align: right;">Institue :
                            <td> <input type="text" name="" id=""></td>
                        </tr>
                        <tr>
                            <td style="text-align: right;">Branch : </td>
                            <td>
                                <select style="width: 200px;">
                                    <option value="">---Select---</option>
                                    <option value="">CSE</option>
                                    <option value="">ESE</option>
                                    <option value="">ECE</option>
                                    <option value="">Civil</option>
                                    <option value="">MECH.</option>
                                    <option value="">ENTC</option>
                                </select>
                            </td>
                        </tr>
                        <lable for="mobile no">mobile no</lable>
                        std:
                            <select style="width: 10px;" name="" id="">
                                <option value="+91" id="std">+91</option>
                                <option value="+44" id="std">+44</option>
                                <option value="+1" id="std">+1</option>
                                <option value="+93" id="std">+93</option>
                            </select>
```

```
                        <input type="tel"  id="phone" name="phone" maxlength="13"
oninput="this.value = this.value.replace(/[^0-9]/g, '').slice(0,10);" required/>



                        <tr>
                            <td style="text-align: right;">Degree : </td>
                            <td>
                                <select style="width: 200px;">
                                    <option value="">---Select---</option>
                                    <option value="">BTECH</option>
                                    <option value="">MBBS</option>
                                    <option value="">MD</option>
                                    <option value="">PHD</option>
                                    <option value="">MS.</option>
                                    <option value="">MCA</option>
                                </select>

                                <input type="radio" name="degree" id="validation">
Pursuing
                                <input type="radio" name="degree" id="validation">
Completed
                            </td>

                        </tr>
                        <tr>
                            <td style="text-align: right;">Average CPI :</td>
                            <td>
                                <input type="number" style="width: 30px;" max="10"
min="1"> Upto <input type="number"
                                    style="width: 30px;" max="8" min="1"> Th
                                Semester
                            </td>
                        </tr>
                        <tr>
                            <td style="text-align: right;">Experience : </td>
                            <td><input type="number" name="" id="" style="width:
30px;" max="30" min="0"></td>
                        </tr>
                        <tr>
                            <td style="text-align: right;">Your Website or blog
:</td>
                            <td><input type="url" value="http://"></td>
                        </tr>
                    </table>

                </fieldset>
                <br>
                <div style="text-align: center;">
```

```
                <button style="border-radius: 50%; height: 30px; width: 30px;">
                    <i class="fa-solid fa-chevron-left"></i>
                </button>

                <span id="step" style="color: white;"> Step-2 </span>

                <button style="border-radius: 50%; height: 30px; width: 30px;">
                    <i class="fa-solid fa-chevron-right"></i>
                </button>

            </div>
        </div>
    </form>
</center>
</body>

</html>
```

Problem statement-3: For the registration form created in HTML 5-C, provide CSS, so that form now looks like this:




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

    <style>
        body {
            font-family: Arial, sans-serif;
            background: #f1f1f1;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
```

```
        margin: 0;
    }

    .container {
        width: 350px;
        background: #ffffff;
        padding: 25px;
        border-radius: 10px;
        box-shadow: 0px 0px 15px rgba(0,0,0,0.1);
    }

    h2 {
        text-align: center;
        margin-bottom: 5px;
    }

    p {
        text-align: center;
        margin-top: 0;
        margin-bottom: 20px;
        color: #555;
    }

    label {
        font-weight: bold;
        display: block;
        margin-bottom: 5px;
    }

    input {
        width: 100%;
        padding: 10px;
        border: none;
        border-radius: 5px;
        background: #e6e6e6;
        margin-bottom: 15px;
        font-size: 14px;
    }

    .btn {
        width: 100%;
        padding: 10px;
        background: #4c00ff;
        color: white;
        font-size: 16px;
        border: none;
        border-radius: 5px;
        cursor: pointer;
    }

    .btn:hover {
```

```
            background: #3800b8;
        }

        .login-link {
            text-align: center;
            margin-top: 10px;
        }

        .login-link a {
            color: #1a0dab;
            text-decoration: none;
        }
    </style>
</head>

<body>

    <div class="container">
        <h2>Register</h2>
        <p>Kindly fill in this form to register.</p>

        <label>Username</label>
        <input type="text" placeholder="Enter username">

        <label>Email</label>
        <input type="email" placeholder="Enter Email">

        <label>Password</label>
        <input type="password" placeholder="Enter Password">

        <label>Confirm Password</label>
        <input type="password" placeholder="Confirm Password">

        <button class="btn">Register</button>

        <div class="login-link">
            Already have an account? <a href="#">Log in</a>
        </div>
    </div>

</body>
</html>
```

CSS assignments:

1. Set the background color of a page to lightblue.

<!DOCTYPE html>

<html lang="en">

```
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
      body {
         background-color: lightblue;
      }
   </style>
</head>
</body>
      </html>
```

2. Consider this sample data:

Sample Data :

```
<body>
<h1>abc</h1>
<p>This is para-1</p>
<div id=”div1”>
 <h1>div-1</h1>
 <p>This is para-2</p>
 <h1>div-2</h1>
 <p>This is para-3</p>
</div>
<h1>xyz</h1>
<p>This is para-4</p>
</body>
```

- Change background color of div to green
- Change text color of the second “h1” to red and background color to gold
- Align only paras within a div tag to right
- Show the last para in bold with font family as Calibri. Display the text in uppercase with a ~~strikethrough effect~~

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

        #div1  {
            background-color:green;
            color: white;
```

```
            display:inline-block;
            /* flex-wrap:wrap; */
            flex-direction: row;
            justify-content: center;
        }
        .para{
            color:black;

            flex-wrap: wrap;
            justify-content: center;
        }
        h1.para{
            color:red;
        }
        </style>

</head>
<body>
    <h1>abc</h1>
    <p>this is para-1</p>
    <div id="div1">
        <h1>div-1</h1>
        <p class="para">this is para-2</p>
        <h1>div-2</h1>
        <p class="para">this is para-3</p>
    </div>
    <h1 class="para">xyz</h1>
    <p>this is para-4</p>
</body>
</html>
```

3. Given the following sample data:

Marketing
Sales
Technology
Customer Support

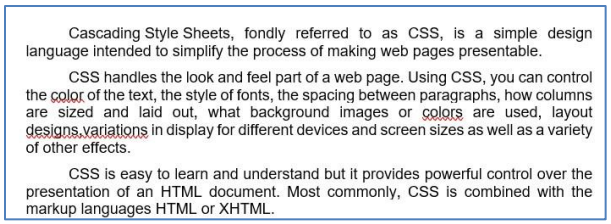
Use CSS to change the background color and draw the border around the <ul> element as shown


```
<!DOCTYPE html>
<html>
<head>
```

```
    <title>Document</title>

    <style>
        .dept-box {
            width: 250px;
            padding: 10px;
            border: 1px solid #333;      /
            background-color: white;
            font-family: Arial, sans-serif;
        }

        .dept-title {
            font-weight: bold;
            margin-bottom: 5px;
        }

        ul {
            background-color: #ffeb3b;
            border: 3px dotted red;
            padding: 10px;
            list-style-type: disc;
        }
    </style>
</head>

<body>

<div class="dept-box">
    <div class="dept-title">Departments:</div>

    <ul>
        <li>Marketing</li>
        <li>Sales</li>
        <li>Technology</li>
        <li>Customer Support</li>
    </ul>
</div>

</body>
</html>
```

4. Consider a document with multiple paras.
    - Indent 1st line of each para similar to below figure.
    - Also justify the margins of all paragraphs.
    - Provide a paragraph header and align it to center

- Set the background of document to the CSS logo



Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs,variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Document</title>

  <style>

    body {
      background-image: url("css-logo.png");
      background-repeat: no-repeat;
      background-size: 40%;
      background-position: center;
      background-color: #f5f5f5;
      font-family: Arial, Helvetica, sans-serif;
    }

    .heading {
      text-align: center;
      margin-top: 40px;
      font-size: 28px;
      font-weight: bold;
    }

    .content-box {
      width: 60%;
      margin: auto;
      background-color: white;
      padding: 20px;
      border: 2px solid #555;
      border-radius: 8px;
      box-shadow: 0 0 6px rgba(0,0,0,0.3);
    }

    p {
      text-align: justify;
      text-indent: 50px;
      margin-bottom: 20px;
```

```
    }
  </style>
</head>

<body>

  <h1 class="heading">Introduction to CSS</h1>

  <div class="content-box">
    <p>
      Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.
    </p>

    <p>
      CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout variations in display for different devices, and screen sizes as well as a variety of other effects.
    </p>

    <p>
      CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.
    </p>
  </div>

</body>
</html>
```

5. Redo the table in Problem statement-3.a of HTML. Use CSS to provide table border and font and background color for table heading

User Name	Education	Location
Praveen Kumar	B.Tech	Guntur
Mahendra Dasari	CA	Chennai
Nagaraju Dasari	MCA	USA
Sateesh Alavala	MD	Vizag
Sudheer	B.Tech	Kakinada

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

<style>
    table {
        width: 600px;
```

```
        border-collapse: collapse;
        font-family: Arial, sans-serif;
        margin: 20px;
        border: 1px solid #ccc;
    }

    th {
        background-color: #a4470e;
        color: white;
        padding: 10px;
        font-size: 16px;
        text-align: left;
        border: 1px solid #ccc;
    }

    td {
        padding: 10px;
        border: 1px solid #ccc;
        font-size: 15px;
    }

    tr:nth-child(even) {
        background-color: #f9f9f9;
    }
</style>

</head>
<body>

<table>
    <tr>
        <th>User Name</th>
        <th>Education</th>
        <th>Location</th>
    </tr>

    <tr>
        <td>Praveen Kumar</td>
        <td>B.Tech</td>
        <td>Guntur</td>
    </tr>

    <tr>
        <td>Mahendra Dasari</td>
        <td>CA</td>
        <td>Chennai</td>
    </tr>

    <tr>
        <td>Nagaraju Dasari</td>
        <td>MCA</td>
```

```
        <td>USA</td>
    </tr>

    <tr>
        <td>Sateesh Alavala</td>
        <td>MD</td>
        <td>Vizag</td>
    </tr>

    <tr>
        <td>Sudheer</td>
        <td>B.Tech</td>
        <td>Kakinada</td>
    </tr>

</table>

</body>
</html>
```

6. Write a HTML page that has a small text content. Highlight a small portion of the content in blue and underline using embedded/instyle CSS. Eg:

This is a piece of text with highlighted elements in it.

```
<!DOCTYPE html>
<html>
<head>
    <title>Highlight Text</title>
    <style>
        .highlight {
            color: blue;
            text-decoration: underline;
        }

        .box {
            border: 1px solid #333;
            padding: 10px;
            width: fit-content;
            font-family: Arial, sans-serif;
        }
    </style>
</head>
<body>

<p class="box">
    This is a piece of <span class="highlight">text</span> with
    <span class="highlight">highlighted</span> elements <span class="highlight">in
it.</span>
</p>
```

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

7. Consider the following table. Create 2 CSS classes and apply these classes to alternate rows of table to give zebra effect

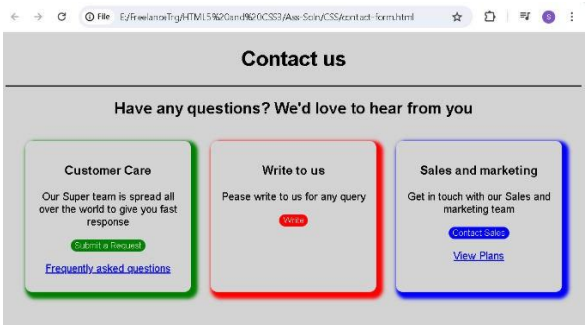
Employee Name	Department	Salary
Jane Smith	Marketing	$95,000
John Smith	Technology	$90,000
Brian Adam	Sales	$72,000
Mary Jones	Support	$60,000
Michael Jefferson	Technology	$85,000

Test It

```
<!DOCTYPE html>
<html>
<head>
    <title>Zebra Table</title>

    <style>
        table {
            width: 500px;
            border-collapse: collapse;
            font-family: Arial, sans-serif;
            margin: 20px;
        }

        th, td {
            padding: 10px;
            border: 1px solid #ccc;
        }

        .rowA {
            background-color: #fff7d6;
        }

        .rowB {
            background-color: #d8ebf7;
        }

        th {
            background-color: #e3e3e3;
            font-weight: bold;
        }
    </style>

</head>
<body>

<table>
    <tr>
```

```
        <th>Employee Name</th>
        <th>Department</th>
        <th>Salary</th>
    </tr>

    <tr class="rowA">
        <td>Jane Smith</td>
        <td>Marketing</td>
        <td>$95,000</td>
    </tr>

    <tr class="rowB">
        <td>John Smith</td>
        <td>Technology</td>
        <td>$90,000</td>
    </tr>

    <tr class="rowA">
        <td>Brian Adam</td>
        <td>Sales</td>
        <td>$72,000</td>
    </tr>

    <tr class="rowB">
        <td>Mary Jones</td>
        <td>Support</td>
        <td>$60,000</td>
    </tr>

    <tr class="rowA">
        <td>Michael Jefferson</td>
        <td>Technology</td>
        <td>$85,000</td>
    </tr>
</table>

<br>

<button>Test It</button>

</body>
</html>
```

8. Refer to problem statement-2 in HTML. Use CSS to highlight the first item in every list to green (lightgreen) (**optional**):




```html
<!DOCTYPE html>
<html>
<head>
    <title>Highlight First Item - CSS</title>

    <style>

        ul li:first-child,
        ol li:first-child {
            background: lightgreen;
            padding: 3px 6px;
            border-radius: 4px;
            font-weight: bold;
        }

        body {
            font-family: Arial, sans-serif;
            background: #f1f1f1;
        }

        h1, h2 {
            text-align: center;
        }

        .container {
            display: flex;
            justify-content: center;
            margin-top: 20px;
            gap: 30px;
        }

        .box {
            width: 260px;
            background: white;
            padding: 20px;
            border-radius: 15px;
            box-shadow: 0px 0px 10px #ccc;
        }

        .box:first-child { border: 3px solid lightgreen; }
```

```
        .box:nth-child(2) { border: 3px solid red; }
        .box:nth-child(3) { border: 3px solid blue; }
    </style>

</head>
<body>

<h1>Contact us</h1>
<h2>Have any questions? We'd love to hear from you</h2>

<div class="container">

    <div class="box">
        <h3>Customer Care</h3>
        <ul>
            <li>Submit a Request</li>
            <li>Frequently asked questions</li>
        </ul>
    </div>
    <div class="box">
        <h3>Write to us</h3>
        <ul>
            <li>Write</li>
            <li>Please write to us for any query</li>
        </ul>
    </div>


    <div class="box">
        <h3>Sales and marketing</h3>
        <ul>
            <li>Contact Sale</li>
            <li>View Plans</li>
        </ul>
    </div>

</div>

</body>
</html>
```

Javascript Lab Assignments:

Day-1 : JS fundamentals

1. Accept an integer value and a message from user and print the message that many number of times.

```
<!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>
    <h1>
        Print the message
    </h1>

     <script>

        var integer = parseInt(prompt('Enter a number'));
        var name = prompt("Enter your Name");

        for(var i = 1; i <= integer; i++)

        document.writeln(name+"<br>")
     </script>
</body>
</html>
```

2. Find the greatest of 3 nos, accept no from user using prompt()

```
<!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>
        var int1 = parseInt(prompt('Enter First Number'));
        var int2 = parseInt(prompt('Enter Second Number'));
        var int3 = parseInt(prompt('Enter Third Number'));

        if(int1 > int2 && int2>int3)
        document.writeln("Integer one is greater")

        else if(int2>int3)
        document.writeln("Interger two is greater")

        else
        document.writeln("Interger three is greater")

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

3. Write a program to list all even numbers less than or equal to the number n. Take the value of n as input from user. Use while loop

<!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>
   var n = parseInt(prompt("enter the number"))
   var i = 2
   var output = ""

   while (i <= n)
  {
   output = output + i + "<br>"
   i = i + 2
  }

  document.write(output)
  </script>
</body>
    </html>
```

4. Write a program that accepts two numbers and a operator like (+,-,*, /) from user and performs the appropriate operation indicated by the operator. Use switch case

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calculator</title>
</head>
<body>
    <script>
        var i = parseInt(prompt("Enter the number 1"));
        var j = parseInt(prompt("Enter the number 2"));

        document.writeln("1 for Addition<br>");
        document.writeln("2 for Subtraction<br>");
        document.writeln("3 for Multiplication<br>");
        document.writeln("4 for Division<br>");

        var choice = parseInt(prompt("Enter your choice (1-4)"));

        var result;

        switch (choice) {
            case 1:
                result = i + j;
                break;

            case 2:
                result = i - j;
```

```
                break;

            case 3:
                result = i * j;
                break;

            case 4:
                result = i / j;
                break;

            default:
                result = "Invalid choice!";
        }

        document.writeln("<br>Result: " + result);
    </script>
</body>
</html>
```

5. Write a program to print the multiplication table of a given number up to 10 multiples. Eg for number 2, output should be like

2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20

```
<!DOCTYPE html>
<html>
<head>
    <title>Multiplication Table</title>
</head>
<body>
<h1> Table of given number</h1>
<script>
    var num = parseInt(prompt("Enter a number to print its table:", "5"));

        for (var i = 1; i <= 10; i++)
        {
            document.write(num + " × " + i + " = " + (num * i) + "<br>");
        }
</script>

</body>
</html>
```

6. Write a program to find sum of digits of given five-digit number. 12345 = 15

```
<!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>
</head>
<body>
    <h2>Sum of Digits</h2>

    <script>
        let num = 12345;
        let sum = num
            .toString()
            .split('')
            .reduce((acc, digit) => acc + Number(digit), 0);
        document.write(Input number: ${num} <br>);
        document.write(Sum of digits = ${sum});
    </script>
</body>
</html>
```

7. Write a program **cmi.js** that that has a function that accepts a distance in inches and prints the corresponding value in cms. Note that 1 inch = 2.54 cm. Test the js file in HTML.

```
<!DOCTYPE html>
<html>
<head>
    <title>Inches to Centimeters</title>

    <script>
        function inchesToCm(inches) {
            const cm = inches * 2.54;
            return cm;
        }

        function convert() {
            let inches = document.getElementById("inchValue").value;
            let cm = inchesToCm(inches);
            document.getElementById("result").innerHTML =
                `${inches} inches = ${cm} cm`;
        }
    </script>
</head>

<body>
    <h2>Inch to Centimeter Converter</h2>

    <input type="number" id="inchValue" placeholder="Enter inches">
```

```
    <button onclick="convert()">Convert</button>

    <p id="result"></p>
</body>
</html>
```

8. Write a function pow(x,y) that calculates x^y. Do not use the Math predefined objet

```
<!DOCTYPE html>
<html>
<head>
    <title>Power Function (No Math Object)</title>
    <script>

        function pow(x, y) {
            let result = 1;

            let positiveY = y;
            if (y < 0) {
                positiveY = -y;
            }

            for (let i = 0; i < positiveY; i++) {
                result *= x;
            }

            if (y < 0) {
                result = 1 / result;
            }

            return result;
        }

        function calculate() {
            let x = Number(document.getElementById("base").value);
            let y = Number(document.getElementById("exp").value);

            let result = pow(x, y);

            document.getElementById("output").innerHTML =
                `${x} ^ ${y} = ${result}`;
        }
    </script>
</head>

<body>
    <h2>Power Function: x^y (No Math Object)</h2>

    <label>Enter base (x): </label>
    <input type="number" id="base"><br><br>
```

```
    <label>Enter exponent (y): </label>
    <input type="number" id="exp"><br><br>

    <button onclick="calculate()">Compute</button>

    <p id="output" style="font-size:18px; font-weight:bold;"></p>
</body>
</html>
```

9. Write Javascript function to find the sum and average of all passed parameters. Pass 3 parameters to the function

```
<!DOCTYPE html>
<html>
<head>
    <title>Sum and Average of Parameters</title>
    <script>

        function sumAndAverage(a, b, c) {
            let sum = a + b + c;
            let average = sum / 3;

            document.getElementById("result").innerHTML =
                `Sum = ${sum} <br> Average = ${average}`;
        }

        function calculate() {
            let x = Number(document.getElementById("p1").value);
            let y = Number(document.getElementById("p2").value);
            let z = Number(document.getElementById("p3").value);

            sumAndAverage(x, y, z);
        }
    </script>
</head>

<body>
    <h2>Sum and Average of 3 Numbers</h2>

    <input type="number" id="p1" placeholder="Enter first number"><br><br>
    <input type="number" id="p2" placeholder="Enter second number"><br><br>
    <input type="number" id="p3" placeholder="Enter third number"><br><br>

    <button onclick="calculate()">Compute</button>

    <p id="result" style="font-size:18px; font-weight:bold;"></p>
</body>
</html>
```

10. Write a program to find the sum of squares of even numbers upto N (accept from user). Create a function to find sum

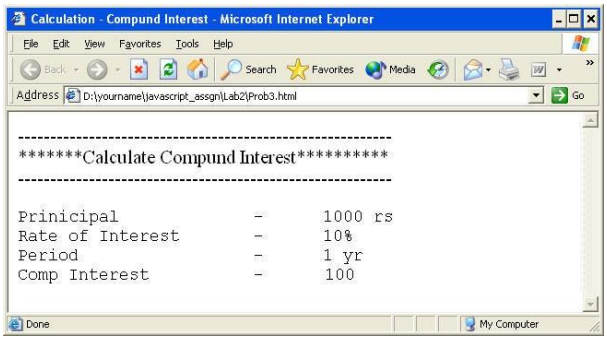
```
<!DOCTYPE html>
<html>
<head>
    <title>Sum of Squares of Even Numbers</title>

    <script>

        function sumOfEvenSquares(N) {
            let sum = 0;
            for (let i = 2; i <= N; i += 2) {
                sum += i * i;
            }
            return sum;
        }

        function calculate() {
            let N = Number(document.getElementById("num").value);
            let result = sumOfEvenSquares(N);

            document.getElementById("output").innerHTML =
                `Sum of squares of even numbers up to ${N} = ${result}`;
        }
    </script>
</head>

<body>
    <h2>Sum of Squares of Even Numbers Up to N</h2>

    <input type="number" id="num" placeholder="Enter N">
    <button onclick="calculate()">Compute</button>

    <p id="output" style="font-size:18px; font-weight:bold;"></p>
</body>
</html>
```

11. Create a web page to calculate the Compound Interest using the formula given below:

Compound Interest = $\left[P * \left(1 + \frac{r}{100}\right)^{n}\right] - P$

Where:
p = Principal,
r = Rate of Interest,
n = period in years

The values used in the example in the following figure are as follows:
P = 1000, n = 1, r = 10




```html
<!DOCTYPE html>
<html>
<head>
    <title>Compound Interest Calculation</title>
    <script type="text/javascript">
        function calculateCI() {
            var p = parseFloat(document.getElementById("principal").value);
            var r = parseFloat(document.getElementById("rate").value);
            var n = parseFloat(document.getElementById("period").value);

            var amount = p * Math.pow((1 + r / 100), n);
            var ci = amount - p;

            document.getElementById("result").innerHTML =
              "<br><br>" +"Principal ----------- " + p + " rs<br>" +
                "Rate of Interest ---- " + r + "%<br>" +
                "Period -------------- " + n + " yr(s)<br>" +
                "Comp Interest ------- " + ci.toFixed(2);
        }
    </script>
</head>
<body>
    <h2>Compound Interest Calculator</h2>

    Principal (P): <input type="text" id="principal" value="1000"><br><br>
    Rate of Interest (r): <input type="text" id="rate" value="10"><br><br>
    Period in Years (n): <input type="text" id="period" value="1"><br><br>

    <button onclick="calculateCI()">Calculate</button>

    <p id="result"></p>
</body>
</html>
```

JS objects

1. Create a web page that displays the current date in the format specified as in example below. Also as per current time, suitable greeting should be printed.
   Today is Monday, 24 April 2000, Welcome, and Good Afternoon to You.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Greeting Page</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
            text-align: center;
            background-color: #f0f8ff;
            color: #333;
        }
        h1 {
            font-size: 24px;
        }
    </style>
</head>
<body>
    <h1 id="greeting"></h1>

    <script>

        const now = new Date();

        const weekdays = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday"];
        const months = ["January", "February", "March", "April", "May", "June",
"July",
                        "August", "September", "October", "November", "December"];

        const dayName = weekdays[now.getDay()];
        const day = now.getDate();
        const month = months[now.getMonth()];
        const year = now.getFullYear();

        const hour = now.getHours();
        let timeGreeting = "";

        if(hour >= 5 && hour < 12){
            timeGreeting = "Good Morning";
        } else if(hour >= 12 && hour < 17){
            timeGreeting = "Good Afternoon";
```

```
        } else if(hour >= 17 && hour < 21){
            timeGreeting = "Good Evening";
        } else {
            timeGreeting = "Good Night";
        }

        const message = `Today is ${dayName}, ${day} ${month} ${year}, Welcome, and
${timeGreeting} to You.`;
        document.getElementById("greeting").textContent = message;
    </script>
</body>
</html>
```

2. Write a function getWeekDay(date) to show the weekday in short format: ‘MO’, ‘TU’, ‘WE’, ‘TH’, ‘FR’, ‘SA’, ‘SU’.
   Eg : let date = new Date(2012, 0, 3); // 3 Jan 2012
   alert(getWeekDay(date)); // should output "TU"

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Weekday Short Format</title>
</head>
<body>
    <h2>Weekday Short Format Example</h2>
    <div id="output"></div>

    <script>

        function getWeekDay(date) {

            const weekdays = ["MO", "TU", "WE", "TH", "FR", "SA", "SU"];

            let day = date.getDay();

            day = (day === 0) ? 6 : day - 1;

            return weekdays[day];
        }

        const dates = [
            new Date(2012, 0, 3),
            new Date(2025, 10, 19),
            new Date()
        ];

        const outputDiv = document.getElementById("output");
```

```
        dates.forEach(d => {
            const shortDay = getWeekDay(d);
            outputDiv.innerHTML += `<p>${d.toDateString()} → ${shortDay}</p>`;
        });
    </script>
</body>
</html>
```

3. Accept and store names of 5 employees into array and display in sorted order of names

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Employee Names Sorter</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            margin: 5px;
            padding: 5px;
        }
        #sortedList {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h2>Enter 5 Employee Names</h2>

    <div id="inputs"></div>
    <button onclick="storeAndSort()">Submit</button>

    <div id="sortedList"></div>

    <script>

        const inputsDiv = document.getElementById("inputs");
        for (let i = 1; i <= 5; i++) {
            const input = document.createElement("input");
            input.type = "text";
            input.id = "emp" + i;
            input.placeholder = "Employee " + i;
            inputsDiv.appendChild(input);
            inputsDiv.appendChild(document.createElement("br"));
        }
```

```
        function storeAndSort() {
            let employees = [];

            for (let i = 1; i <= 5; i++) {
                const name = document.getElementById("emp" + i).value.trim();
                if (name !== "") {
                    employees.push(name);
                }
            }

            if (employees.length < 5) {
                alert("Please enter all 5 employee names!");
                return;
            }

            employees.sort();

            const sortedDiv = document.getElementById("sortedList");
            sortedDiv.innerHTML = "Sorted Employee Names:<br>" +
employees.join("<br>");
        }
    </script>
</body>
</html>
```

4. WAP to accept 10 words from the user into an array. Print all those words which are even in length and starts with A or a?

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Filter Words</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            margin: 5px;
            padding: 5px;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
```

```
<body>
    <h2>Enter 10 Words</h2>

    <div id="inputs"></div>
    <button onclick="filterWords()">Submit</button>

    <div id="result"></div>

    <script>

        const inputsDiv = document.getElementById("inputs");
        for (let i = 1; i <= 10; i++) {
            const input = document.createElement("input");
            input.type = "text";
            input.id = "word" + i;
            input.placeholder = "Word " + i;
            inputsDiv.appendChild(input);
            inputsDiv.appendChild(document.createElement("br"));
        }

        function filterWords() {
            let words = [];

            for (let i = 1; i <= 10; i++) {
                const word = document.getElementById("word" + i).value.trim();
                if (word !== "") {
                    words.push(word);
                }
            }

            if (words.length < 10) {
                alert("Please enter all 10 words!");
                return;
            }

            const filtered = words.filter(word => {
                return word.length % 2 === 0 && (word[0] === 'A' || word[0] === 
'a');
            });

            const resultDiv = document.getElementById("result");
            if (filtered.length > 0) {
                resultDiv.innerHTML = "Filtered Words:<br>" + filtered.join("<br>");
            } else {
                resultDiv.innerHTML = "No words matched the criteria.";
            }
        }
    </script>
</body>
</html>
```

5. WAP to create a simple initialized int array with 5 integers. Iterate thru the array and find sum and average of all elements. Eg given array : var arr = [11,22,33,44,55]

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sum and Average of Array</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h2>Sum and Average of Array Elements</h2>

    <script>

        var arr = [11, 22, 33, 44, 55];

        var sum = 0;
        for (var i = 0; i < arr.length; i++) {
            sum += arr[i];
        }

        var average = sum / arr.length;

        document.write("<p>Array: [" + arr.join(", ") + "]</p>");
        document.write("<p>Sum of elements: " + sum + "</p>");
        document.write("<p>Average of elements: " + average + "</p>");
    </script>
</body>
</html>
```

6. WAP to create a simple initialized int array with 5 integers. Create a new empty array. Read the contents of initialised array and for every element, find square of the number and store into new array. Use appropriate array methods

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Array Squares from User Input</title>
```

```
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            margin: 5px;
            padding: 5px;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h2>Enter 5 Integers</h2>

    <div id="inputs"></div>
    <button onclick="computeSquares()">Submit</button>

    <div id="result"></div>

    <script>

        const inputsDiv = document.getElementById("inputs");
        for (let i = 1; i <= 5; i++) {
            const input = document.createElement("input");
            input.type = "number";
            input.id = "num" + i;
            input.placeholder = "Number " + i;
            inputsDiv.appendChild(input);
            inputsDiv.appendChild(document.createElement("br"));
        }

        function computeSquares() {
            let arr = [];

            for (let i = 1; i <= 5; i++) {
                const val = document.getElementById("num" + i).value.trim();
                if (val === "") {
                    alert("Please enter all 5 numbers!");
                    return;
                }
                arr.push(Number(val));
            }

            const squares = arr.map(num => num * num);

            const resultDiv = document.getElementById("result");
            resultDiv.innerHTML = `
```

```
                Original Array: [${arr.join(", ")}] <br>
                Squares Array: [${squares.join(", ")}]
            `;
        }
    </script>
</body>
</html>
```

7. WAP that has 10 numbers already stored in an array. Find the average of all numbers and then print how many numbers are above average.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Above Average Count - User Input</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            margin: 5px;
            padding: 5px;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h2>Enter 10 Numbers</h2>

    <div id="inputs"></div>
    <button onclick="calculateAboveAverage()">Submit</button>

    <div id="result"></div>

    <script>

        const inputsDiv = document.getElementById("inputs");
        for (let i = 1; i <= 10; i++) {
            const input = document.createElement("input");
            input.type = "number";
            input.id = "num" + i;
            input.placeholder = "Number " + i;
            inputsDiv.appendChild(input);
```

```
            inputsDiv.appendChild(document.createElement("br"));
        }

        function calculateAboveAverage() {
            let numbers = [];

            for (let i = 1; i <= 10; i++) {
                const val = document.getElementById("num" + i).value.trim();
                if (val === "") {
                    alert("Please enter all 10 numbers!");
                    return;
                }
                numbers.push(Number(val));
            }

            const sum = numbers.reduce((acc, num) => acc + num, 0);
            const average = sum / numbers.length;

            const aboveAverageCount = numbers.filter(num => num > average).length;

            const resultDiv = document.getElementById("result");
            resultDiv.innerHTML = `
                Numbers: [${numbers.join(", ")}] <br>
                Average: ${average.toFixed(2)} <br>
                Count of numbers above average: ${aboveAverageCount}
            `;
        }
    </script>
</body>
</html>
```

8. We have an array that holds many web site names. Eg, www.google.com, www.msn.com, www.amazon.co.in, in.answers.yahoo.com, en.m.wikipedia.com, codehs.gitbooks.io, www.coderanch.com etc. Search for all sites that begin with “www” and display the total number of such sites. Eg for above eg, total is 4

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Count www Sites</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        textarea, button {
            margin: 5px 0;
            padding: 5px;
            width: 100%;
```

```
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h2>Enter Website Names (one per line)</h2>
    <textarea id="websites" rows="10"
placeholder="www.google.com&#10;www.msn.com&#10;www.amazon.co.in&#10;in.answers.yaho
o.com"></textarea>
    <button onclick="countWWW()">Submit</button>

    <div id="result"></div>

    <script>
        function countWWW() {
            const text = document.getElementById("websites").value.trim();
            if (text === "") {
                alert("Please enter some website names!");
                return;
            }

            const sites = text.split("\n").map(site => site.trim());

            const wwwSites = sites.filter(site =>
site.toLowerCase().startsWith("www"));

            const resultDiv = document.getElementById("result");
            resultDiv.innerHTML = `
                Websites starting with "www":<br>
                ${wwwSites.join("<br>")}<br>
                <br>
                Total: ${wwwSites.length}
            `;
        }
    </script>
</body>
</html>
```

9. Create an array that holds 4 employee objects and displays each emp detail in a table. Emp details is part of an custom Employee object and could be empid, empname and salary. Use for each loop to inspect all properties of each object

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

```
    <title>Employee Table</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        table {
            border-collapse: collapse;
            width: 60%;
        }
        th, td {
            border: 1px solid #000;
            padding: 8px 12px;
            text-align: left;
        }
        th {
            background-color: #f2f2f2;
        }
    </style>
</head>
<body>
    <h2>Employee Details</h2>

    <table id="empTable">
        <thead>
            <tr>
                <th>Emp ID</th>
                <th>Emp Name</th>
                <th>Salary</th>
            </tr>
        </thead>
        <tbody></tbody>
    </table>

    <script>

        function Employee(empid, empname, salary) {
            this.empid = empid;
            this.empname = empname;
            this.salary = salary;
        }

        const employees = [
            new Employee(101, "Ajay", 50000),
            new Employee(102, "Raj", 60000),
            new Employee(103, "Om", 55000),
            new Employee(104, "Rajkumar", 70000)
        ];


        const tbody = document.querySelector("#empTable tbody");
```

```
        employees.forEach(emp => {
            const row = document.createElement("tr");

            for (let key in emp) {
                if (emp.hasOwnProperty(key)) {
                    const cell = document.createElement("td");
                    cell.textContent = emp[key];
                    row.appendChild(cell);
                }
            }

            tbody.appendChild(row);
        });
    </script>
</body>
</html>
```

10. Create a custom object for rectangle and circle. Individual Rectangle objects should be able to store dimension, and have methods to print area and perimeter. Individual Circle objects should be able to store radius, and have methods to print area and circumference. Display dimensions, area and perimeter of rectangle and circle objects. Make use of Math pre-defined objects

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Rectangle & Circle Objects - User Input</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            padding: 5px 10px;
            margin: 5px 0;
        }
        table {
            border-collapse: collapse;
            margin-bottom: 30px;
            width: 60%;
        }
        th, td {
            border: 1px solid #000;
            padding: 8px 12px;
            text-align: left;
        }
        th {
            background-color: #f2f2f2;
        }
```

```
        caption {
            font-weight: bold;
            margin-bottom: 10px;
        }
    </style>
</head>
<body>
    <h2>Rectangle and Circle Details (User Input)</h2>

    <h3>Add Rectangle</h3>
    Length: <input type="number" id="rectLength" min="0" step="any">
    Width: <input type="number" id="rectWidth" min="0" step="any">
    <button onclick="addRectangle()">Add Rectangle</button>

    <table id="rectangleTable">
        <caption>Rectangles</caption>
        <thead>
            <tr>
                <th>Length</th>
                <th>Width</th>
                <th>Area</th>
                <th>Perimeter</th>
            </tr>
        </thead>
        <tbody></tbody>
    </table>

    <h3>Add Circle</h3>
    Radius: <input type="number" id="circleRadius" min="0" step="any">
    <button onclick="addCircle()">Add Circle</button>

    <table id="circleTable">
        <caption>Circles</caption>
        <thead>
            <tr>
                <th>Radius</th>
                <th>Area</th>
                <th>Circumference</th>
            </tr>
        </thead>
        <tbody></tbody>
    </table>

    <script>
        function Rectangle(length, width) {
            this.length = length;
            this.width = width;
        }

        Rectangle.prototype.area = function() {
            return this.length * this.width;
```

```
}

Rectangle.prototype.perimeter = function() {
    return 2 * (this.length + this.width);
}
function Circle(radius) {
    this.radius = radius;
}

Circle.prototype.area = function() {
    return Math.PI * Math.pow(this.radius, 2);
}

Circle.prototype.circumference = function() {
    return 2 * Math.PI * this.radius;
}

const rectangles = [];
const circles = [];
function displayRectangles() {
    const tbody = document.querySelector("#rectangleTable tbody");
    tbody.innerHTML = "";
    rectangles.forEach(rect => {
        const row = document.createElement("tr");
        row.innerHTML = `
            <td>${rect.length}</td>
            <td>${rect.width}</td>
            <td>${rect.area().toFixed(2)}</td>
            <td>${rect.perimeter().toFixed(2)}</td>
        `;
        tbody.appendChild(row);
    });
}
function displayCircles() {
    const tbody = document.querySelector("#circleTable tbody");
    tbody.innerHTML = "";
    circles.forEach(circle => {
        const row = document.createElement("tr");
        row.innerHTML = `
            <td>${circle.radius}</td>
            <td>${circle.area().toFixed(2)}</td>
            <td>${circle.circumference().toFixed(2)}</td>
        `;
        tbody.appendChild(row);
    });
}
function addRectangle() {
    const length = parseFloat(document.getElementById("rectLength").value);
    const width = parseFloat(document.getElementById("rectWidth").value);

    if (isNaN(length) || isNaN(width) || length <= 0 || width <= 0) {
```

```
                alert("Please enter valid positive numbers for length and width!");
                return;
            }

            const rect = new Rectangle(length, width);
            rectangles.push(rect);
            displayRectangles();
            document.getElementById("rectLength").value = "";
            document.getElementById("rectWidth").value = "";
        }

        function addCircle() {
            const radius =
parseFloat(document.getElementById("circleRadius").value);

            if (isNaN(radius) || radius <= 0) {
                alert("Please enter a valid positive number for radius!");
                return;
            }

            const circle = new Circle(radius);
            circles.push(circle);
            displayCircles();
            document.getElementById("circleRadius").value = "";
        }
    </script>
</body>
</html>
```

11. Define a custom class Student with stud-name and course as properties and a function getDetails() which will print student details
    - Extend the Student class to create a GraduateStudent class which has an additional property “gpa”
    - Create objects of graduate student with name, course and gpa. Override the getDetails() methods from Student class to display gpa as well

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Graduate Student Details - User Input</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
        }
        input, button {
            padding: 5px 10px;
            margin: 5px 0;
```

```
        }
        table {
            border-collapse: collapse;
            width: 70%;
            margin-top: 20px;
        }
        th, td {
            border: 1px solid #000;
            padding: 8px 12px;
            text-align: left;
        }
        th {
            background-color: #f2f2f2;
        }
        caption {
            font-weight: bold;
            margin-bottom: 10px;
        }
    </style>
</head>
<body>
    <h2>Enter Graduate Student Details</h2>

    <label>Name:</label>
    <input type="text" id="nameInput" placeholder="Student Name"><br>

    <label>Course:</label>
    <input type="text" id="courseInput" placeholder="Course"><br>

    <label>GPA:</label>
    <input type="number" id="gpaInput" step="0.01" min="0" max="4"><br>

    <button onclick="addGraduateStudent()">Add Graduate Student</button>

    <table id="studentTable">
        <caption>Graduate Students</caption>
        <thead>
            <tr>
                <th>Name</th>
                <th>Course</th>
                <th>GPA</th>
            </tr>
        </thead>
        <tbody></tbody>
    </table>

    <script>

        class Student {
            constructor(name, course) {
                this.name = name;
```

```
            this.course = course;
        }

        getDetails() {
            return `Name: ${this.name}, Course: ${this.course}`;
        }
    }

    class GraduateStudent extends Student {
        constructor(name, course, gpa) {
            super(name, course);
            this.gpa = gpa;
        }

        getDetails() {
            return `${super.getDetails()}, GPA: ${this.gpa}`;
        }
    }

    const graduateStudents = [];

    function addGraduateStudent() {
        const name = document.getElementById("nameInput").value.trim();
        const course = document.getElementById("courseInput").value.trim();
        const gpa = parseFloat(document.getElementById("gpaInput").value);

        if (name === "" || course === "" || isNaN(gpa) || gpa < 0 || gpa > 4) {
            alert("Please enter valid student details!");
            return;
        }

        const student = new GraduateStudent(name, course, gpa);
        graduateStudents.push(student);
        displayStudents();
        document.getElementById("nameInput").value = "";
        document.getElementById("courseInput").value = "";
        document.getElementById("gpaInput").value = "";
    }

    function displayStudents() {
        const tbody = document.querySelector("#studentTable tbody");
        tbody.innerHTML = "";

        graduateStudents.forEach(student => {
            const row = document.createElement("tr");
            row.innerHTML = `
                <td>${student.name}</td>
                <td>${student.course}</td>
                <td>${student.gpa.toFixed(2)}</td>
            `;
            tbody.appendChild(row);
```

```
            });
        }
    </script>
</body>
</html>
```

12. Define a class Rectangle with its length and breadth.

- Provide appropriate constructor(s), which sets rectangle object with values.
- Provide methods to calculate area, calculate perimeter and to display all information of Rectangle (dimensions, area and perimeter).
- Create 5 Rectangle objects by hardcoding all necessary information. Add the objects into an array. Iterate thru the array and for each rectangle object, calculate its area and display its information

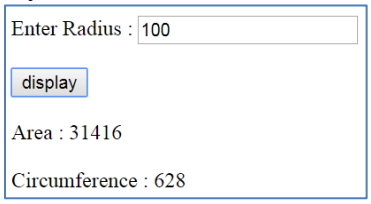
```
<!DOCTYPE html>
<html>
<head>
    <title>Rectangle Information</title>
    <style>
        table {
            width: 60%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid #333;
            padding: 8px 12px;
            text-align: center;
        }
        th {
            background-color: #f4f4f4;
        }
        input[type="number"] {
            width: 80px;
            margin-right: 10px;
        }
        button {
            padding: 5px 10px;
        }
    </style>
</head>
<body>

<h2>Rectangle Details</h2>

<!-- Form to add rectangle -->
<label for="length">Length:</label>
<input type="number" id="length" min="0" placeholder="Length">
<label for="breadth">Breadth:</label>
<input type="number" id="breadth" min="0" placeholder="Breadth">
<button onclick="addRectangle()">Add Rectangle</button>
```

```
<!-- Table to display rectangles -->
<table id="rectangleTable">
    <thead>
        <tr>
            <th>#</th>
            <th>Length</th>
            <th>Breadth</th>
            <th>Area</th>
            <th>Perimeter</th>
        </tr>
    </thead>
    <tbody>

    </tbody>
</table>

<script>

    class Rectangle {
        constructor(length, breadth) {
            this.length = length;
            this.breadth = breadth;
        }

        area() {
            return this.length * this.breadth;
        }

        perimeter() {
            return 2 * (this.length + this.breadth);
        }
    }

    const rectangles = [];
    function addRectangle() {
        const lengthInput = document.getElementById("length");
        const breadthInput = document.getElementById("breadth");

        const length = parseFloat(lengthInput.value);
        const breadth = parseFloat(breadthInput.value);

        if (isNaN(length) || isNaN(breadth) || length <= 0 || breadth <= 0) {
            alert("Please enter valid positive numbers for length and breadth.");
            return;
        }

        const rect = new Rectangle(length, breadth);
        rectangles.push(rect);

        lengthInput.value = "";
```

```
        breadthInput.value = "";

        updateTable();
    }

    function updateTable() {
        const tableBody =
document.getElementById("rectangleTable").querySelector("tbody");
        tableBody.innerHTML = "";

        rectangles.forEach((rect, index) => {
            const row = document.createElement("tr");

            const cellIndex = document.createElement("td");
            cellIndex.textContent = index + 1;

            const cellLength = document.createElement("td");
            cellLength.textContent = rect.length;

            const cellBreadth = document.createElement("td");
            cellBreadth.textContent = rect.breadth;

            const cellArea = document.createElement("td");
            cellArea.textContent = rect.area();

            const cellPerimeter = document.createElement("td");
            cellPerimeter.textContent = rect.perimeter();

            row.appendChild(cellIndex);
            row.appendChild(cellLength);
            row.appendChild(cellBreadth);
            row.appendChild(cellArea);
            row.appendChild(cellPerimeter);

            tableBody.appendChild(row);
        });
    }
</script>

</body>
</html>
```

Day-3

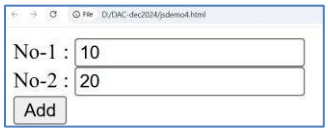
1. Create a HTML form that accepts radius and displays the area and circumference of a circle. Make use of Math object




```
<!DOCTYPE html>
<html>
<head>
    <title>Circle Calculator</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 30px;
        }
        label, input, button {
            margin: 5px 0;
            display: block;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>

<h2>Circle Area & Circumference Calculator</h2>

<form id="circleForm">
    <label for="radius">Enter Radius:</label>
    <input type="number" id="radius" min="0" step="any" placeholder="Radius">
    <button type="button" onclick="calculateCircle()">Calculate</button>
</form>

<div id="result"></div>

<script>
    function calculateCircle() {

        const radiusInput = document.getElementById("radius");
        const radius = parseFloat(radiusInput.value);

        if (isNaN(radius) || radius <= 0) {
            alert("Please enter a valid positive number for radius.");
            return;
        }

        const area = Math.PI * Math.pow(radius, 2);
```

```
        const circumference = 2 * Math.PI * radius;
        const resultDiv = document.getElementById("result");
        resultDiv.innerHTML = `
            Radius: ${radius}<br>
            Area: ${area.toFixed(2)}<br>
            Circumference: ${circumference.toFixed(2)}
        `;
    }
</script>

</body>
</html>
```

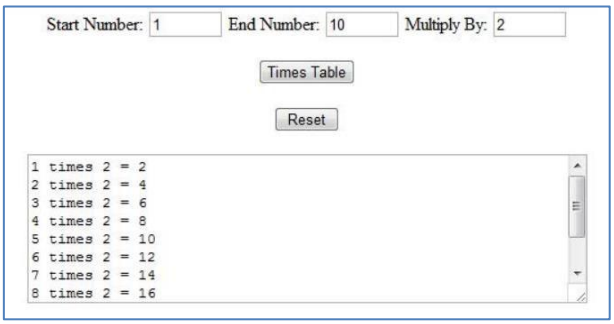
2. Create a HTML form that accepts 2 numbers and displays sum of numbers at bottom of form




```
<!DOCTYPE html>
<html>
<head>
    <title>Sum Calculator</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 30px;
        }
        label, input, button {
            margin: 5px 0;
            display: block;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>

<h2>Sum Calculator</h2>

<form id="sumForm">
    <label for="num1">Enter First Number:</label>
    <input type="number" id="num1" placeholder="First Number">

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

    <button type="button" onclick="calculateSum()">Calculate Sum</button>
</form>
```

```
<div id="result"></div>
<script>
    function calculateSum() {
        const num1 = parseFloat(document.getElementById("num1").value);
        const num2 = parseFloat(document.getElementById("num2").value);

        if (isNaN(num1) || isNaN(num2)) {
            alert("Please enter valid numbers.");
            return;
        }
        const sum = num1 + num2;
        const resultDiv = document.getElementById("result");
        resultDiv.textContent = `Sum: ${sum}`;
    }
</script>

</body>
</html>
```

3. Create a HTML form that accepts start and end values and displays multiplication table




```
<!DOCTYPE html>
<html>
<head>
    <title>Multiplication Table</title>
    <script>
        function generateTable() {
            var start = parseInt(document.getElementById("start").value);
            var end = parseInt(document.getElementById("end").value);
            var mul = parseInt(document.getElementById("mul").value);

            var output = "";

            for (var i = start; i <= end; i++) {
                output += i + " times " + mul + " = " + (i * mul) + "\n";
            }

            document.getElementById("result").value = output;
        }
```

```
        function resetForm() {
            document.getElementById("start").value = "";
            document.getElementById("end").value = "";
            document.getElementById("mul").value = "";
            document.getElementById("result").value = "";
        }
    </script>
</head>

<body>

    <h3>Create Multiplication Table</h3>

    Start Number:
    <input type="text" id="start" value="1">

       End Number:
    <input type="text" id="end" value="10">

       Multiply By:
    <input type="text" id="mul" value="2">

    <br><br>

    <button onclick="generateTable()">Times Table</button>
    <br><br>

    <button onclick="resetForm()">Reset</button>
    <br><br>

    <textarea id="result" rows="10" cols="50" style="overflow:auto;"></textarea>

</body>
</html>
```

4. Write a program that accepts (from the html form) a positive integer less than 1000 and prints out the sum of the digits of this number.

   Enter a +ve no less than 1000: -4
   Entered number is out of range

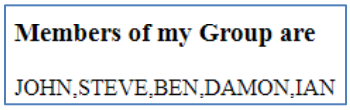
   Enter a +ve no less than 1000: 1234
   Entered number is out of range

   Enter a +ve no less than 1000: 546
   Sum of the digits of 546 is 15

```
<!DOCTYPE html>
<html>
<head>
    <title>Sum of Digits</title>
    <style>
        body {
```

```
            font-family: Arial, sans-serif;
            margin: 30px;
        }
        label, input, button {
            display: block;
            margin: 5px 0;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>

<h2>Sum of Digits Calculator</h2>

<form id="digitForm">
    <label for="number">Enter a positive integer less than 1000:</label>
    <input type="number" id="number" placeholder="Enter number">
    <button type="button" onclick="calculateSum()">Calculate Sum</button>
</form>

<div id="result"></div>

<script>
    function calculateSum() {
        const numInput = document.getElementById("number");
        const num = parseInt(numInput.value);
        const resultDiv = document.getElementById("result");

        if (isNaN(num) || num <= 0 || num >= 1000) {
            resultDiv.textContent = `Entered number is out of range`;
            return;
        }

        let sum = 0;
        let temp = num;
        while (temp > 0) {
            sum += temp % 10;
            temp = Math.floor(temp / 10);
        }

        resultDiv.textContent = `Sum of the digits of ${num} is ${sum}`;
    }
</script>

</body>
</html>
```

5. Assume i have an array of member names. Read the array and display all member names as a string delimited by comma all in uppercase in the current document window
eg : var names = [‘John’,’Steve’,’Ben’,’Damin’,’Ian’]




```html
<!DOCTYPE html>
<html>
<head>
    <title>Display Member Names</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 30px;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>

<h2>Member Names</h2>

<div id="result"></div>

<script>
    var names = ['John', 'Steve', 'Ben', 'Damin', 'Ian'];

    var upperNames = names.map(function(name) {
        return name.toUpperCase();
    });

    var resultString = upperNames.join(', ');

    document.getElementById("result").textContent = resultString;
</script>

</body>
</html>
```

22. Assume we have this content in HTML <body>. An empty list and a button

```
<h3> Members of my Group are </h3>
<ol id="list">
</ol>
<input type="button" onclick="f1()" value="Populate list">
```

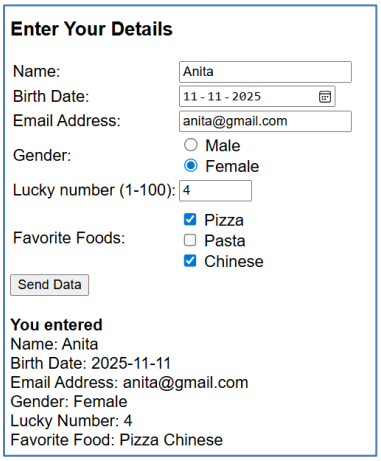
Also assume I have a list of names. When I click on the button, script should read all names from array and polulate the list with list items. Output must look like this:

Use procedural DOM methods like createElement(), querySelector(), appendChild() etc for this assignment. Please refer to given PPT for examples on how to do this

```
<!DOCTYPE html>
<html>
<head>
    <title>Group Members List</title>
</head>

<body>

    <h3>Members of my Group are</h3>

    <ol id="list">

    </ol>

    <input type="button" onclick="f1()" value="Populate list">

    <script>
        function f1() {

            var names = ["Kavita", "Anita", "Sunita", "Babita"];

            var list = document.querySelector("#list");

            while (list.firstChild) {
                list.removeChild(list.firstChild);
            }

            for (var i = 0; i < names.length; i++) {
                var li = document.createElement("li");
                var text = document.createTextNode(names[i]);
                li.appendChild(text);
                list.appendChild(li);
```

```
            }
        }
    </script>

</body>
</html>
```

6. Create a HTML page that will display the following form and on clicking the button, the details will be listed as shown. Also create an object with all details from form, show them below the form thru the newly created object. Email has to be valid. Lucky number must be in range 1 to 100




```
<!DOCTYPE html>
<html>
<head>
    <title>User Details Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 30px;
        }
        label, input, button {
            display: block;
            margin: 5px 0;
        }
        #result {
            margin-top: 20px;
            font-weight: bold;
        }
        .error {
            color: red;
        }
    </style>
</head>
<body>
```

```
<h2>User Details Form</h2>

<form id="userForm">
    <label for="name">Name:</label>
    <input type="text" id="name" placeholder="Enter name">

    <label for="email">Email:</label>
    <input type="email" id="email" placeholder="Enter email">

    <label for="age">Age:</label>
    <input type="number" id="age" placeholder="Enter age">

    <label for="luckyNumber">Lucky Number (1-100):</label>
    <input type="number" id="luckyNumber" placeholder="Enter lucky number">

    <button type="button" onclick="submitForm()">Submit</button>
</form>

<div id="result"></div>

<script>
    function submitForm() {
        const name = document.getElementById("name").value.trim();
        const email = document.getElementById("email").value.trim();
        const age = parseInt(document.getElementById("age").value);
        const luckyNumber = parseInt(document.getElementById("luckyNumber").value);
        const resultDiv = document.getElementById("result");

        if (name === "" || email === "" || isNaN(age) || isNaN(luckyNumber)) {
            resultDiv.innerHTML = '<span class="error">Please fill in all fields
correctly.</span>';
            return;
        }
        const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        if (!emailRegex.test(email)) {
            resultDiv.innerHTML = '<span class="error">Please enter a valid email
address.</span>';
            return;
        }
        if (luckyNumber < 1 || luckyNumber > 100) {
            resultDiv.innerHTML = '<span class="error">Lucky number must be between
1 and 100.</span>';
            return;
        }
        const userDetails = {
            Name: name,
            Email: email,
            Age: age,
            LuckyNumber: luckyNumber
        };
```

```
        let output = "<h3>User Details:</h3><ul>";
        for (const key in userDetails) {
            output += `<li><strong>${key}:</strong> ${userDetails[key]}</li>`;
        }
        output += "</ul>";

        resultDiv.innerHTML = output;

    }
</script>

</body>
</html>
```

7. Create a HTML table. Apply zebra stripes using javascript. Zebra stripes means that alternate rows are colored so that each row is clearly defined. Eg

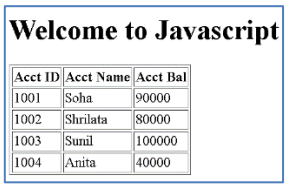
Student name	Course	Grade
Manisha Patel	DAC	B
Savita Rao	DITISS	B
Arnav Patil	DIoT	A
Anita Kapoor	DAC	A

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

        #studentTable {
            border-collapse: collapse;
            width: 50%;
            margin: 20px auto;
            font-family: Arial, sans-serif;
            box-shadow: 0 0 20px rgba(0, 0, 0, 0.15);
        }

        #studentTable th, #studentTable td {
            border: 1px solid #dddddd;
            padding: 12px 15px;
            text-align: left;
        }

        #studentTable th {
            background-color: #009879;
            color: white;
```

```
            text-transform: uppercase;
        }

        .striped {
            background-color: #f3f3f3;
        }
    </style>
</head>
<body>

    <table id="studentTable">
        <thead>
            <tr>
                <th>Student name</th>
                <th>Course</th>
                <th>Grade</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Manisha Patel</td>
                <td>DAC</td>
                <td>B</td>
            </tr>
            <tr>
                <td>Savita Rao</td>
                <td>DITISS</td>
                <td>B</td>
            </tr>
            <tr>
                <td>Arnav Patil</td>
                <td>DIoT</td>
                <td>A</td>
            </tr>
            <tr>
                <td>Anita Kapoor</td>
                <td>DAC</td>
                <td>A</td>
            </tr>
        </tbody>
    </table>

    <script>

        function applyZebraStripes() {
            const tableBody = document.querySelector('#studentTable tbody');

            const rows = tableBody.getElementsByTagName('tr');

            for (let i = 0; i < rows.length; i++) {
```

```
                if (i % 2 !== 0) {

                    rows[i].classList.add('striped');
                }
            }
        }
        document.addEventListener('DOMContentLoaded', applyZebraStripes);
    </script>

</body>
</html>
```

8. Create a Java Script object that holds an array of at least 3 Java Script objects to store information about accounts:
   account no - Numeric
   account name - String
   account balance - Numeric
   Write a Java Script program to perform the following operations:
   A) Display the total balance
   B) Loop thru array and display all account information in neat HTML table



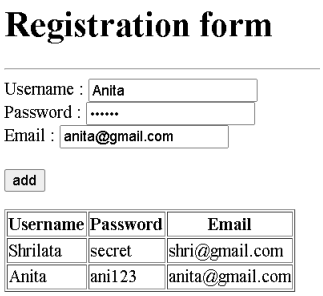

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Account Information Display</title>
    <script src="https://cdn.tailwindcss.com"></script>
    <style>

        #accounts-container {
            max-width: 900px;
            margin: 40px auto;
        }
        #accountTable {

            border-collapse: collapse;
            width: 100%;
        }
        #accountTable th, #accountTable td {
            text-align: left;
            padding: 12px 15px;
            border: 1px solid #e5e7eb;
        }

        #accountTable tbody tr:nth-child(even) {
```

```
            background-color: #f9fafb;
        }
    </style>
</head>
<body class="bg-gray-50 font-sans">

    <div id="accounts-container" class="p-6 bg-white rounded-xl shadow-2xl">
        <h1 class="text-3xl font-extrabold text-blue-800 mb-6 border-b-4 border-
blue-200 pb-2">
            Welcome to Javascript
        </h1>
        <div class="mb-8 p-4 bg-yellow-50 rounded-lg border-l-4 border-yellow-500">
            <h2 class="text-xl font-semibold text-gray-700 mb-2">Total Bank
Balance</h2>
            <p id="totalBalance" class="text-4xl font-bold text-yellow-700">
                Loading...
            </p>
        </div>

        <h2 class="text-2xl font-semibold text-gray-700 mb-4 border-b-2 pb-1">
            Account Details
        </h2>
        <table id="accountTable" class="min-w-full">
            <thead>
                <tr class="bg-blue-600 text-white uppercase text-sm leading-normal">
                    <th class="py-3 px-6">Account No</th>
                    <th class="py-3 px-6">Account Name</th>
                    <th class="py-3 px-6">Account Balance (INR)</th>
                </tr>
            </thead>
            <tbody id="tableBody" class="text-gray-600 text-sm font-light">

            </tbody>
        </table>
    </div>

    <script>

        const bankData = {
            accounts: [
                { accountNo: 1001, accountName: "Soha", accountBalance: 90000 },
                { accountNo: 1002, accountName: "Shrilata", accountBalance: 80000 },
                { accountNo: 1003, accountName: "Sunil", accountBalance: 100000 },
                { accountNo: 1004, accountName: "Anita", accountBalance: 40000 },
                { accountNo: 1005, accountName: "Mohan", accountBalance: 55000 }
            ]
        };

        function displayTotalBalance(accounts) {
            const totalBalanceElement = document.getElementById('totalBalance');
```

```
            if (!totalBalanceElement) {
                console.error("Error: Could not find the element with ID
'totalBalance'.");
                return;
            }

            const total = accounts.reduce((accumulator, account) => {
                return accumulator + account.accountBalance;
            }, 0);

            console.log("Calculated Total Balance:", total);

            try {
                const formattedTotal = total.toLocaleString('en-IN', {
                    style: 'currency',
                    currency: 'INR',
                    minimumFractionDigits: 0
                });

                totalBalanceElement.textContent = formattedTotal;
            } catch (error) {
                totalBalanceElement.textContent = `INR ${total.toFixed(0)}`;
                console.error("Formatting error, using fallback format:", error);
            }
        }

        function displayAccountTable(accounts) {
            const tableBody = document.getElementById('tableBody');

            tableBody.innerHTML = '';


            accounts.forEach(account => {

                const row = document.createElement('tr');
                row.classList.add('hover:bg-gray-100', 'transition', 'duration-
150');

                const accNoCell = document.createElement('td');
                accNoCell.textContent = account.accountNo;
                accNoCell.classList.add('py-3', 'px-6', 'font-medium', 'text-gray-
900');

                const accNameCell = document.createElement('td');
                accNameCell.textContent = account.accountName;
                accNameCell.classList.add('py-3', 'px-6');

                const accBalanceCell = document.createElement('td');
                const formattedBalance = account.accountBalance.toLocaleString('en-
IN', {
                    style: 'currency',
```

```
                    currency: 'INR',
                    minimumFractionDigits: 0
                });
                accBalanceCell.textContent = formattedBalance;
                accBalanceCell.classList.add('py-3', 'px-6', 'font-semibold', 'text-
right');

                row.appendChild(accNoCell);
                row.appendChild(accNameCell);
                row.appendChild(accBalanceCell);
                tableBody.appendChild(row);
            });
        }
        document.addEventListener('DOMContentLoaded', () => {

            console.log("Initialization started.");
            const accounts = bankData.accounts;

            displayTotalBalance(accounts);
            displayAccountTable(accounts);
            console.log("Initialization complete.");
        });

    </script>

</body>
</html>
```

9. Create a HTML page that will display the following Registration form and on clicking the button, the details will be listed as shown. Create an object with all details from form and add to an array. Display the contents of the array in a neat tabular manner at bottom of form




```
<!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>
    <style>

        body {
            font-family: Arial, sans-serif;
            margin: 20px;
```

```
        }

        .form-group {
            display: flex;
            align-items: center;
            margin-bottom: 5px;
        }

        .form-group label {
            width: 80px;
            text-align: left;
            margin-right: 5px;
        }

        .form-group input[type="text"],
        .form-group input[type="password"] {
            border: 1px solid black;
            padding: 2px;
            box-sizing: border-box;
        }

        #password {
            width: 120px;
        }

        #username, #email {

            width: 150px;
        }

        #addButton {
            margin-top: 10px;
            padding: 3px 8px;
            border: 1px solid black;
            background-color: #f0f0f0;
        }

        hr {
            border: 0;
            height: 1px;
            background-color: black;
            margin: 10px 0;
        }

        #data-table {
            width: 350px;
            border-collapse: collapse;
            margin-top: 20px;
        }

        #data-table th,
```

```
        #data-table td {
            border: 1px solid black;
            padding: 5px;
            text-align: left;
        }

        #data-table th {
            background-color: #e9e9e9;
        }
    </style>
</head>
<body>

    <h1>Registration form</h1>
    <hr>
    <form id="registrationForm">
        <div class="form-group">
            <label for="username">Username :</label>
            <input type="text" id="username" name="username" value="Anita" required>
        </div>
        <div class="form-group">
            <label for="password">Password :</label>
            <input type="password" id="password" name="password" value="******"
required>
        </div>
        <div class="form-group">
            <label for="email">Email :</label>
            <input type="text" id="email" name="email" value="anita@gmail.com"
required>
        </div>

        <button type="submit" id="addButton">add</button>
    </form>
    <hr>

    <table id="data-table">
        <thead>
            <tr>
                <th>Username</th>
                <th>Password</th>
                <th>Email</th>
            </tr>
        </thead>
        <tbody id="table-body">
            <tr>
                <td>Shrilata</td>
                <td>secret</td>
                <td>shri@gmail.com</td>
            </tr>
            <tr>
                <td>Anita</td>
```

```
            <td>ani123</td>
            <td>anita@gmail.com</td>
        </tr>
    </tbody>
</table>

<script>

    const userDetailsArray = [
        { username: "Shrilata", password: "secret", email: "shri@gmail.com" },
        { username: "Anita", password: "ani123", email: "anita@gmail.com" }
    ];
    const form = document.getElementById('registrationForm');
    const tableBody = document.getElementById('table-body');
    const usernameInput = document.getElementById('username');
    const passwordInput = document.getElementById('password');
    const emailInput = document.getElementById('email');

    function renderTable() {

        const lastUser = userDetailsArray[userDetailsArray.length - 1];

        const newRow = tableBody.insertRow();

        let cell1 = newRow.insertCell();
        let cell2 = newRow.insertCell();
        let cell3 = newRow.insertCell();

        cell1.textContent = lastUser.username;
        cell2.textContent = lastUser.password;
        cell3.textContent = lastUser.email;
    }

    form.addEventListener('submit', function(event) {
        event.preventDefault();
        const newUsername = usernameInput.value;
        const newPassword = passwordInput.value;
        const newEmail = emailInput.value;

        const newUser = {
            username: newUsername,
            password: newPassword,
            email: newEmail
        };
        userDetailsArray.push(newUser);

        renderTable();
        usernameInput.value = "";
        passwordInput.value = "";
        emailInput.value = "";
```

```
            usernameInput.focus();
        });

    </script>

</body>
</html>
```

10. Create an IPL ticket booking form to accept spectator details.

- All text fields are mandatory
- EmailID and Confirm EmailId field values have to be same.
- Cost of ticket will be picked up, based on the stand selected. Use the table provided to select the cost. The field cannot be an editable field.
- Use the "book now" button to calculate ticket cost. If all the data is valid show an alert "All data entered correctly"
- Depending on Stand selected, cost of ticket would be:

Stand	Floor	Charges (In Rs)
Platinum Gallery	Not applicable	25000
Super Hospitality Stand	Not applicable	20000
North West Stand	First floor	6000
East Stand	First floor	3000

- **Make use HTML, HTML5, Javascript, CSS**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>IPL Ticket Booking</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 20px;
        }

        .form-group {
            display: flex;
            align-items: center;
            margin-bottom: 10px;
        }

        .form-group label {
            width: 150px;
            text-align: left;
            margin-right: 10px;
            font-weight: bold;
        }

        .form-group input[type="text"],
```

```
        .form-group input[type="email"] {
            padding: 5px;
            border: 1px solid #ccc;
            width: 250px;
        }

        .stand-select-container {
            display: flex;
            align-items: flex-start;
            margin-bottom: 10px;
        }

        .stand-select-container label {
            width: 150px;
            text-align: left;
            margin-right: 10px;
            font-weight: bold;
            padding-top: 5px;
        }

        #selectStand {
            padding: 5px;
            width: 250px;
            height: 100px;
        }

        #costOfTicket {
            background-color: #eee;
            font-weight: bold;
        }

        #bookNowBtn {
            margin-top: 10px;
            padding: 8px 15px;
            border: 1px solid #333;
            background-color: #f0f0f0;
            cursor: pointer;
        }

        table {
            border-collapse: collapse;
            margin-top: 20px;
        }

        table, th, td {
            border: 1px solid black;
        }

        th, td {
            padding: 8px 12px;
        }
```

```
        th {
            background-color: #f0f0f0;
        }
    </style>
</head>
<body>

    <h1>IPL Ticket Booking Form</h1>

    <form id="bookingForm">
        <div class="form-group">
            <label for="spectatorName">Spectator Name:</label>
            <input type="text" id="spectatorName" required>
        </div>

        <div class="form-group">
            <label for="emailId">Email ID:</label>
            <input type="email" id="emailId" required>
        </div>

        <div class="form-group">
            <label for="confirmMailId">Confirm Email ID:</label>
            <input type="email" id="confirmMailId" required>
        </div>

        <div class="stand-select-container">
            <label for="selectStand">Select Stand:</label>
            <select id="selectStand" size="5" required>
                <option value="" disabled selected>Select a Stand</option>
                <option value="Platinum Gallery">Platinum Gallery</option>
                <option value="Super Hospitality Stand">Super Hospitality
Stand</option>
                <option value="North West Stand">North West Stand</option>
                <option value="East Stand">East Stand</option>
            </select>
        </div>

        <div class="form-group">
            <label for="costOfTicket">Cost of Ticket:</label>
            <input type="text" id="costOfTicket" readonly>
        </div>

        <button type="button" id="bookNowBtn">Book Now</button>
    </form>

    <h2>Ticket Charges Reference</h2>
    <table>
        <thead>
            <tr>
                <th>Stand</th>
```

```
                <th>Floor</th>
                <th>Charges (Rs)</th>
            </tr>
        </thead>
        <tbody>
            <tr><td>Platinum Gallery</td><td>Not applicable</td><td>25000</td></tr>
            <tr><td>Super Hospitality Stand</td><td>Not
applicable</td><td>20000</td></tr>
            <tr><td>North West Stand</td><td>First floor</td><td>6000</td></tr>
            <tr><td>East Stand</td><td>First floor</td><td>3000</td></tr>
        </tbody>
    </table>

    <script>
        const TICKET_COSTS = {
            "Platinum Gallery": 25000,
            "Super Hospitality Stand": 20000,
            "North West Stand": 6000,
            "East Stand": 3000
        };

        const nameInput = document.getElementById('spectatorName');
        const emailInput = document.getElementById('emailId');
        const confirmEmailInput = document.getElementById('confirmMailId');
        const standSelect = document.getElementById('selectStand');
        const costInput = document.getElementById('costOfTicket');
        const bookNowButton = document.getElementById('bookNowBtn');

        function calculateCost() {
            const selectedStand = standSelect.value;
            if (selectedStand && TICKET_COSTS[selectedStand]) {
                costInput.value = TICKET_COSTS[selectedStand];
            } else {
                costInput.value = "";
            }
        }

        standSelect.addEventListener('change', calculateCost);

        function validateAndBook() {
            if (!nameInput.value || !emailInput.value || !confirmEmailInput.value) {
                alert("All text fields are mandatory. Please fill in all fields.");
                return false;
            }
            const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
            if (!emailPattern.test(emailInput.value) ||
!emailPattern.test(confirmEmailInput.value)) {
                alert("Please enter a valid email address.");
                return false;
            }
```

```
            if (emailInput.value !== confirmEmailInput.value) {
                alert("Email ID and Confirm Email ID must be the same.");
                return false;
            }

            if (!standSelect.value || standSelect.value === "Select a Stand") {
                alert("Please select a Stand.");
                return false;
            }

            if (!costInput.value) {
                alert("Please select a stand to calculate the ticket cost.");
                return false;
            }

            alert("Booking successful!\n\n" +
                  `Name: ${nameInput.value}\n` +
                  `Email: ${emailInput.value}\n` +
                  `Stand: ${standSelect.value}\n` +
                  `Cost: Rs ${costInput.value}`);

            return true;
        }

        bookNowButton.addEventListener('click', validateAndBook);
    </script>

</body>
</html>
```

jQuery Lab Assignments:

1. Find all h1 elements that are children of a div element and apply a background to them.

Sample Data :

```
<body>
<h1>abc</h1>
<div id=”div1”>
  <h1>div-1</h1>
  <h1>div-2</h1>
</div>
<h1>xyz</h1>
</body>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>H1 in Div</title>
    <style>
        div > h1 {
            background-color: yellow;
            padding: 5px;
        }
    </style>
</head>
<body>
    <h1>abc</h1>
    <div id="div1">
        <h1>div-1</h1>
        <h1>div-2</h1>
    </div>
    <h1>xyz</h1>
</body>
</html>
```

2. Set the background color of a page to lightblue.

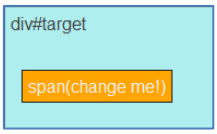
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Background Color</title>
    <style>
        body {
            background-color: lightblue;
        }
    </style>
</head>
<body>
</body>
</html>
```

3. Use the sample data in question1. Change background color of div to green

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

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Div Background Example</title>
    <style>

        div > h1 {
            background-color: yellow;
            padding: 5px;
        }

        #div1 {
            background-color: green;
            padding: 10px;
        }
    </style>
</head>
<body>
    <h1>abc</h1>
    <div id="div1">
        <h1>div-1</h1>
        <h1>div-2</h1>
    </div>
    <h1>xyz</h1>
</body>
</html>
```

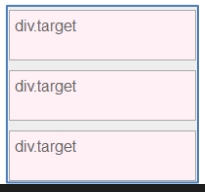
4. Change the text in the span, a child of '#target'




```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>jQuery Text Change</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>

    #target {
      border: 2px solid #5dadec;
      background-color: #e0f7fa;
      padding: 20px;
      width: 200px;
      margin-bottom: 15px;
    }
    #target span {
      background-color: #ffa726;
```

```
        padding: 5px 10px;
        border-radius: 3px;
        display: inline-block;
    }
  </style>
</head>
<body>

  <h1>4. Change the text in the span, a child of '#target'</h1>

  <div id="target">
    div#target
    <p></p>
    <span>span(change me!)</span>
  </div>

  <button id="changeTextButton">Change Text</button>

  <script>

    $(document).ready(function() {
      $('#changeTextButton').on('click', function() {
        $('#target span').text("Text Successfully Changed by jQuery!");
        $(this).prop('disabled', true).text('Text Changed!');
      });
    });
  </script>

</body>
</html>
```

5. Change background color of the second 'div'.




```
DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Change Background of Second Div</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
    <style>

        .container {
```

```
            border: 1px solid #ccc;
            padding: 10px;
            width: 300px;
            display: flex;
            flex-direction: column;
            gap: 10px;
            background-color: #f7f7f7;
        }

        .target {
            border: 1px solid #b8b8d1;
            background-color: #fce4ec;
            padding: 10px;
            text-align: center;
        }
    </style>
</head>
<body>

    <h1>5. Change background color of the second 'div.target'.</h1>

    <div class="container">
        <div class="target">div.target (1st)</div>
        <div class="target">div.target (2nd)</div>
        <div class="target">div.target (3rd)</div>
    </div>

    <button id="changeColorButton">Apply Color Change</button>

    <script>

        $(document).ready(function() {

            $('#changeColorButton').on('click', function() {

                $('.target:eq(1)').css('background-color', '#a5d6a7');
                alert("Background color of the second div has been changed!");
                $(this).prop('disabled', true).text('Color Changed!');
            });
        });
    </script>

</body>
</html>
```

6. Hide all the input elements within a form. You may use one of the web page created in HTML lab

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

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Hide Inputs with jQuery</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
    <h1>Sample Form</h1>
    <form id="sampleForm">
        <label for="name">Name:</label>
        <input type="text" id="name" value="John"><br><br>

        <label for="email">Email:</label>
        <input type="email" id="email" value="john@example.com"><br><br>

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

    <script>

        $(document).ready(function() {
            $('form input').hide();
        });
    </script>
</body>
</html>
```

7. Find the specific option tag text value of a given option. For eg, show the text value associated with second option (Should display Option-2)

Sample Data :

```
<body>
 <select id="myselect">
    <option value="1">Option-1</option>
        <option value="2">Option-2</option>
        <option value="3">Option-3</option>
        </select>
</body>
```

8. Write jQuery code to append a div element (and all of its contents) dynamically to the body element. Insert the following code within HTML <body> tag : <h1>JQuery Core</h1>

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Append Div with jQuery</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

    <h1>Existing Content</h1>

    <script>
        $(document).ready(function() {
```

```
            const newDiv = $('<div><h1>JQuery Core</h1></div>');
            $('body').append(newDiv);
        });
    </script>
</body>
</html>
```

9. Write a jQuery Code to get a single element (li) from a list. Sample data: second list item is “Kiwi”

```
<body>
<ui>
<li>Apple</li>
<li>Kiwi</li>
<li>Strawberry</li>
</body>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>jQuery Select List Item</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

    <ul>
        <li>Apple</li>
        <li>Kiwi</li>
        <li>Strawberry</li>
    </ul>

    <script>
        $(document).ready(function() {
            const kiwiItem = $('li:eq(1)');
            kiwiItem.css({
                'background-color': '#fffacd',
                'border': '2px solid green',
                'font-weight': 'bold'
            });

            console.log("Selected item's text:", kiwiItem.text());
        });
    </script>

</body>
</html>
```

10. Given the above list, prepend each list item with a index number. Eg, display should be:

```
0:Apple
1:Kiwi
2:Strawberry
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Prepend Index to List Items</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
    <style>

        li {
            font-family: monospace;
            font-size: 1.2em;
        }
    </style>
</head>
<body>

    <ul>
        <li>Apple</li>
        <li>Kiwi</li>
        <li>Strawberry</li>
    </ul>

    <script>
        $(document).ready(function() {

            $('li').each(function(index) {
                const prefix = index + ':';

            });
        });
    </script>

</body>
</html>
```

11. Assume a web page having 3 divs, one of them having a class applied. Find which div element has class applied. Sample data: (output would be div1)

```
<body>
<div id="div1" class="divclass"></div>
<div id="div2" </div>
<div id="div3" </div>
</body>
```

```
    <!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Find Div with Class</title>
```

```
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

    <div id="div1" class="divclass"></div>
    <div id="div2"></div>
    <div id="div3"></div>

    <p>The div element with a class is: <strong id="output"></strong></p>

    <script>
        $(document).ready(function() {

            const divWithClass = $('div[class]');

            const elementId = divWithClass.attr('id');

            $('#output').text(elementId);

            console.log("Found element:", divWithClass);
            console.log("Output:", elementId);
        });
    </script>

</body>
</html>
```

12. Assume we have this content in HTML <body>

```
<body>
<h3> Members of my Group are </h3>
<ol id="list">
</ol>
</body>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Adding List Items with jQuery</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
 <h3>Members of my Group are</h3>
    <ol id="list">
    </ol>

    <script>
        $(document).ready(function() {

            const members = ["Alice", "Bob", "Charlie", "Diana"];
```

```
            const $list = $('#list');

            members.forEach(member => {

                const listItemHTML = `<li>${member}</li>`;

                $list.append(listItemHTML);
            });

        });
    </script>

</body>
</html>
```

13. Also assume we have a array of person names (5 names).
    Read from array and populate the above list with member names in bullet form.

Members of my Group are

1. John
2. Steve
3. Ben
4. Damon
5. Ian

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Populate List from Array</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
 <h3>Members of my Group are</h3>
    <ol id="list">
        </ol>

    <script>
        $(document).ready(function() {

            const personNames = ["John", "Steve", "Ben", "Damon", "Ian"];

            const $list = $('#list');

            personNames.forEach(name => {

                const listItemHTML = `<li>${name}</li>`;

                $list.append(listItemHTML);
            });

        });
    </script>
```

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

14. Create a web page that accepts person name, age and whether employed (true/false) using HTML form elements.
    On clicking “add” button, create a JSON obj with the person details. Add (push()) this json into an array.
    Provide another button “display” which will iterate thru array and display all persons details in a neat HTML table.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Person Details JSON</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 20px;
        }
        .form-group {
            margin-bottom: 10px;
        }
        label {
            width: 100px;
            display: inline-block;
            font-weight: bold;
        }
        input[type="text"], input[type="number"] {
            padding: 5px;
            width: 200px;
        }
        button {
            padding: 7px 15px;
            margin-top: 10px;
            margin-right: 10px;
            cursor: pointer;
        }
        table {
            margin-top: 20px;
            border-collapse: collapse;
            width: 50%;
        }
        th, td {
            border: 1px solid #333;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: #eee;
        }
```

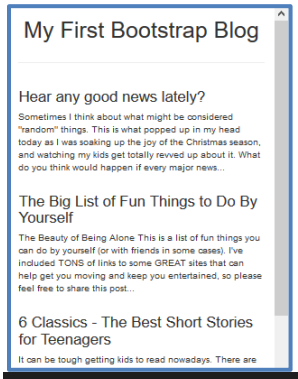
```
    </style>
</head>
<body>

    <h1>Person Details Form</h1>

    <div class="form-group">
        <label for="personName">Name:</label>
        <input type="text" id="personName" required>
    </div>

    <div class="form-group">
        <label for="personAge">Age:</label>
        <input type="number" id="personAge" required>
    </div>

    <div class="form-group">
        <label for="personEmployed">Employed:</label>
        <select id="personEmployed">
            <option value="true">True</option>
            <option value="false">False</option>
        </select>
    </div>

    <button id="addBtn">Add</button>
    <button id="displayBtn">Display</button>

    <div id="tableContainer"></div>

    <script>

        let personArray = [];

        document.getElementById('addBtn').addEventListener('click', function() {
            const name = document.getElementById('personName').value.trim();
            const age = document.getElementById('personAge').value.trim();
            const employed = document.getElementById('personEmployed').value;

            if(!name || !age) {
                alert("Please enter both name and age.");
                return;
            }

            const person = {
                name: name,
                age: parseInt(age),
                employed: employed === "true"
            };

            personArray.push(person);
```

```
            document.getElementById('personName').value = '';
            document.getElementById('personAge').value = '';
            document.getElementById('personEmployed').value = 'true';

            alert("Person added successfully!");
        });

        document.getElementById('displayBtn').addEventListener('click', function() {
            if(personArray.length === 0) {
                alert("No person data to display!");
                return;
            }

            let tableHTML = '<table>';
            tableHTML += '<tr><th>Name</th><th>Age</th><th>Employed</th></tr>';

            personArray.forEach(person => {
                tableHTML += `<tr>
                                <td>${person.name}</td>
                                <td>${person.age}</td>
                                <td>${person.employed}</td>
                              </tr>`;
            });

            tableHTML += '</table>';

            document.getElementById('tableContainer').innerHTML = tableHTML;
        });
    </script>

</body>
</html>
```

Bootstrap Lab Assignments

1. Create a dynamic layout containing blog posts. It must have a header that spans across the width of the whole website.

Then we have a three-column layout containing blog posts, when viewed on a desktop. In a tablet, the posts are contained in a two-column layout instead of three. The same website when viewed on mobile devices must display all posts in a single column.

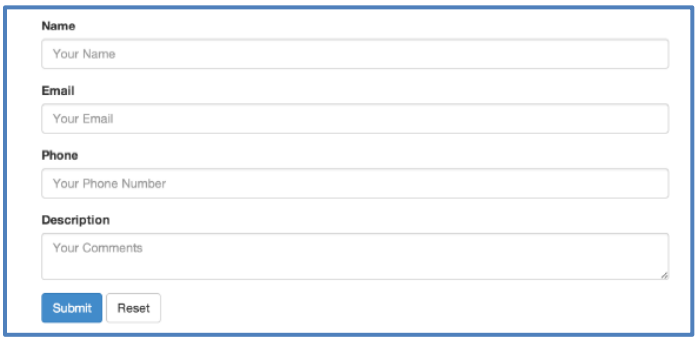



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Responsive Blog Layout</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
    <style>
```

```
        .card {

            height: 100%;
            border-radius: 0.5rem;
        }
        .bg-primary {
            background-color: #0d6efd !important;
        }
    </style>
</head>
<body>

    <header class="bg-primary text-white p-3 mb-5">
        <div class="container-fluid">
            <h1>My First Bootstrap Blog</h1>
        </div>
    </header>

    <div class="container">
        <div class="row">

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">Hear any good news lately?</h5>
                        <p class="card-text">Sometimes I think about what might be
considered good news and what I should be telling people about it. What do you think
would happen if every major news outlet shared only good news?</p>
                    </div>
                </div>
            </div>

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">The Big List Of Fun Things To Do By
Yourself</h5>
                        <p class="card-text">The beauty of being alone is a list of
fun things you can do by yourself or with friends at some point. Some of the
greatest works of art were accomplished in solitude.</p>
                    </div>
                </div>
            </div>

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">6 Classics - The Best Short Stories
for Teenagers</h5>
```

```
                        <p class="card-text">There are so many short electronic
distractions available today, but there's nothing quite like sitting down with a
good book. Here are some of the best short stories suitable for teenagers.</p>
                    </div>
                </div>
            </div>

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">24 Simple Workplace Etiquette Tips to
Improve Your Life</h5>
                        <p class="card-text">Sometimes the simplest things, like a
question you would ask in a kindergarten class, can be applied to the office.
Maintaining good manners and being polite always helps daily interactions.</p>
                    </div>
                </div>
            </div>

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">5 Free Tips for Managers from an
Employee</h5>
                        <p class="card-text">I've been in the game a long time now,
and I have absolutely no desire to be in any kind of management role. But here are
five things I wish I could share with all managers.</p>
                    </div>
                </div>
            </div>

            <div class="col-12 col-md-6 col-lg-4 mb-4">
                <div class="card h-100 shadow-sm">
                    <div class="card-body">
                        <h5 class="card-title">Finding Your Purpose in Life</h5>
                        <p class="card-text">Why I'm cutting my dog's hair recently
gave myself permission to accept I was enjoying it. There's nothing against the
groomer we were using, it was just the satisfaction of doing the work myself.</p>
                    </div>
                </div>
            </div>

        </div> </div> <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
</body>
</html>
```

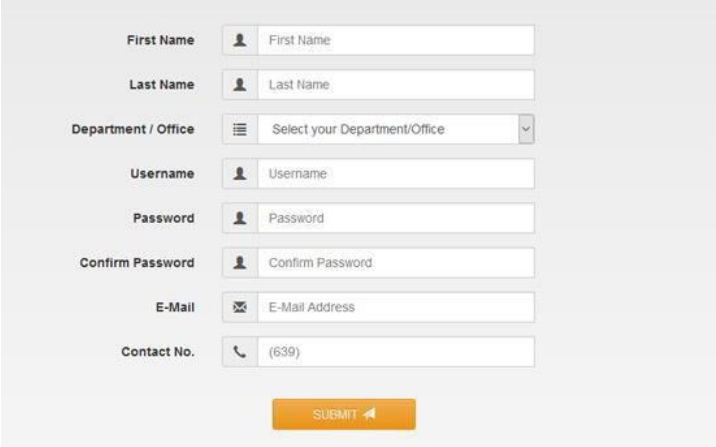
2. Create a simple vertical form in bootstrap:




```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Blue Border Form</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">

    <style>

        .form-wrapper {
            border: 3px solid #0d6efd;
            border-radius: 10px;
            padding: 25px;
        }
        .form-control {
            border: 2px solid #0d6efd;
        }
        .form-control:focus {
            border-color: #0d6efd;
            box-shadow: 0 0 0 0.2rem rgba(13, 110, 253, .25);
        }
    </style>
</head>

<body class="bg-light">

    <div class="container mt-5">
        <div class="form-wrapper bg-white shadow">

            <h3 class="mb-4 text-center">Contact Form</h3>

            <form>

                <div class="mb-3">
                    <label for="inputName" class="form-label">Name</label>
```

```
                    <input type="text" class="form-control" id="inputName"
placeholder="Your Name">
                </div>

                <div class="mb-3">
                    <label for="inputEmail" class="form-label">Email</label>
                    <input type="email" class="form-control" id="inputEmail"
placeholder="Your Email">
                </div>

                <div class="mb-3">
                    <label for="inputPhone" class="form-label">Phone</label>
                    <input type="tel" class="form-control" id="inputPhone"
placeholder="Your Phone Number">
                </div>

                <div class="mb-3">
                    <label for="inputDescription" class="form-
label">Description</label>
                    <textarea class="form-control" id="inputDescription" rows="3"
placeholder="Your Comments"></textarea>
                </div>

                <div class="d-flex gap-2 justify-content-center">
                    <button type="submit" class="btn btn-primary px-
4">Submit</button>
                    <button type="reset" class="btn btn-secondary px-
4">Reset</button>
                </div>

            </form>

        </div>
    </div>

    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"><
/script>

</body>
</html>
```

3. Create a simple form in Bootstrap as shown:



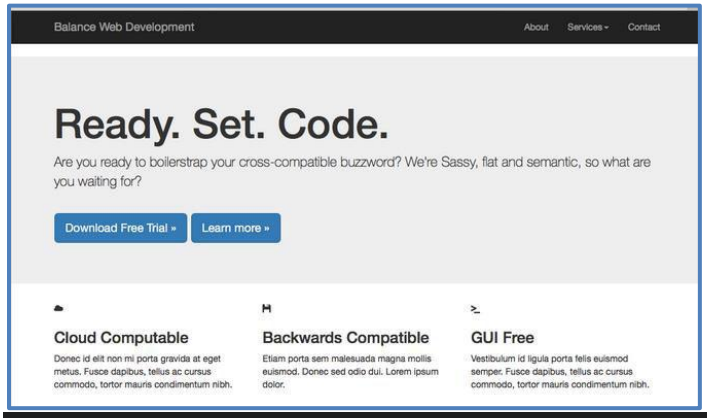

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bootstrap Horizontal Form</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.5.2/css/all.min.css">

    <style>
        body {
            background-color: #f8f9fa;
        }
        .form-container {
            max-width: 700px;
            margin: 50px auto;
            padding: 30px;
            background: white;
            border-radius: 0.5rem;
            box-shadow: 0 0.125rem 0.25rem rgba(0, 0, 0, 0.075);
        }
    </style>
</head>
<body>

<div class="container form-container">
    <h2>Registration Form</h2>

    <form>

        <div class="row mb-3 align-items-center">
            <label for="firstName" class="col-sm-4 col-form-label text-sm-end">First
Name</label>
            <div class="col-sm-8">
                <div class="input-group">
```

```
                    <span class="input-group-text"><i class="fas fa-
user"></i></span>
                    <input type="text" class="form-control" id="firstName"
placeholder="First Name">
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="lastName" class="col-sm-4 col-form-label text-sm-end">Last
Name</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
user"></i></span>
                    <input type="text" class="form-control" id="lastName"
placeholder="Last Name">
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="department" class="col-sm-4 col-form-label text-sm-
end">Department / Office</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
list"></i></span>
                    <select class="form-select" id="department">
                        <option selected>Select your Department/Office</option>
                        <option value="1">IT</option>
                        <option value="2">HR</option>
                        <option value="3">Finance</option>
                    </select>
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="username" class="col-sm-4 col-form-label text-sm-
end">Username</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
user"></i></span>
                    <input type="text" class="form-control" id="username"
placeholder="Username">
                </div>
            </div>
        </div>
```

```
        <div class="row mb-3 align-items-center">
            <label for="password" class="col-sm-4 col-form-label text-sm-
end">Password</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
lock"></i></span>
                    <input type="password" class="form-control" id="password"
placeholder="Password">
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="confirmPassword" class="col-sm-4 col-form-label text-sm-
end">Confirm Password</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
lock"></i></span>
                    <input type="password" class="form-control" id="confirmPassword"
placeholder="Confirm Password">
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="email" class="col-sm-4 col-form-label text-sm-end">E-
Mail</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
envelope"></i></span>
                    <input type="email" class="form-control" id="email"
placeholder="E-Mail Address">
                </div>
            </div>
        </div>

        <div class="row mb-3 align-items-center">
            <label for="contactNo" class="col-sm-4 col-form-label text-sm-
end">Contact No.</label>
            <div class="col-sm-8">
                <div class="input-group">
                    <span class="input-group-text"><i class="fas fa-
phone"></i></span>
                    <input type="tel" class="form-control" id="contactNo"
placeholder="(639)">
                </div>
            </div>
        </div>
```

```
        <div class="row mt-4">
            <div class="col-sm-8 offset-sm-4">
                <button type="submit" class="btn btn-warning btn-lg">
                    <i class="fas fa-paper-plane me-2"></i> SUBMIT
                </button>
            </div>
        </div>

    </form>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"><
/script>
</body>
</html>
```

4. Create the following webpage using navbar, jumbotron, buttons, glyphicons, grids etc

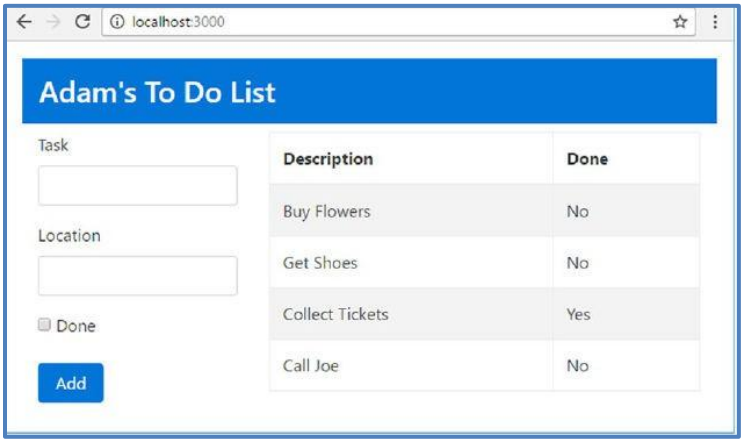



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bootstrap 3 Page</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

    <nav class="navbar navbar-default">
        <div class="container-fluid">
            <div class="navbar-header">
                <a class="navbar-brand" href="#">Balance Web Development</a>
            </div>
```

```
            <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
                <ul class="nav navbar-nav navbar-right">
                    <li><a href="#">About</a></li>
                    <li class="dropdown">
                        <a href="#" class="dropdown-toggle" data-toggle="dropdown"
role="button" aria-haspopup="true" aria-expanded="false">Services <span
class="caret"></span></a>
                        <ul class="dropdown-menu">
                            <li><a href="#">Web Design</a></li>
                            <li><a href="#">SEO</a></li>
                        </ul>
                    </li>
                    <li><a href="#">Contact</a></li>
                </ul>
            </div></div></nav>

    <div class="jumbotron">
        <div class="container">
            <h1>Ready. Set. Code.</h1>
            <p>Are you ready to bolstrap your cross-compatible buzzword? We're
Sassy, fiat and semantic, so what are you waiting for?</p>

            <p>
                <a class="btn btn-primary btn-lg" href="#" role="button">
                    Download Free Trial <span class="glyphicon glyphicon-download-
alt"></span>
                </a>

                <a class="btn btn-default btn-lg" href="#" role="button">
                    Learn more <span class="glyphicon glyphicon-chevron-
right"></span>
                </a>
            </p>
        </div>
    </div>

    <div class="container">
        <div class="row text-center">

            <div class="col-md-4">
                <h2><span class="glyphicon glyphicon-cloud" aria-
hidden="true"></span></h2>
                <h4>Cloud Computable</h4>
                <p>Donec id elit non mi porta gravida at eget metus. Fusce dapibus,
tellus ac cursus commodo, tortor mauris condimentum nibh.</p>
            </div>

            <div class="col-md-4">
                <h2><span class="glyphicon glyphicon-hourglass" aria-
hidden="true"></span></h2>
```

```
                <h4>Backwards Compatible</h4>
                <p>Etiam porta sem malesuada magna mollis euismod. Donec sed odio
dui. Lorem ipsum dolor.</p>
            </div>

            <div class="col-md-4">
                <h2><span class="glyphicon glyphicon-wrench" aria-
hidden="true"></span></h2>
                <h4>GUI Free</h4>
                <p>Vestibulum id ligula porta felis euismod semper. Fusce dapibus,
tellus ac cursus commodo, tortor mauris condimentum nibh.</p>
            </div>

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

5. Create a layout like given:




```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Adam's To Do List Layout</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
</head>
<body>

<div class="container mt-5">

    <div class="card text-white bg-primary mb-4">
        <div class="card-body">
            <h1 class="card-title mb-0">Adam's To Do List</h1>
```

```
        </div>
    </div>

    <div class="row">

        <div class="col-md-4 mb-4">
            <form>
                <div class="mb-3">
                    <label for="inputTask" class="form-label">Task</label>
                    <input type="text" class="form-control" id="inputTask">
                </div>

                <div class="mb-3">
                    <label for="inputLocation" class="form-label">Location</label>
                    <input type="text" class="form-control" id="inputLocation">
                </div>

                <div class="form-check mb-4">
                    <input class="form-check-input" type="checkbox" value=""
id="checkDone">
                    <label class="form-check-label" for="checkDone">
                        Done
                    </label>
                </div>

                <button type="submit" class="btn btn-primary">Add</button>
            </form>
        </div>

        <div class="col-md-8">
            <table class="table table-striped">
                <thead>
                    <tr>
                        <th scope="col">Description</th>
                        <th scope="col" style="width: 100px;">Done</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>Buy Flowers</td>
                        <td>No</td>
                    </tr>
                    <tr>
                        <td>Get Shoes</td>
                        <td>No</td>
                    </tr>
                    <tr class="table-light"> <td>Collect Tickets</td>
                        <td>Yes</td>
                    </tr>
                    <tr>
                        <td>Call Joe</td>
```

```
                    <td>No</td>
                </tr>
            </tbody>
        </table>
    </div>
</div> </div> <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"><
/script>
</body>
</html>
```