ASSIGNMENT – 1

PROBLEM STATEMENT:1
Recreate the table as shown in the image.

Example of Perfect Square using table.						
	n*n	**Int 2**				
		1	2	3	4	5
Int 1	1	**1**	2	3	4	5
	2	2	**4**	6	8	10
	3	3	6	**9**	12	20
	4	4	8	12	**16**	20
	5	5	10	15	20	**25**

Ensure that the text and the perfect squares are displayed in bold text.

Program:

```
<!DOCTYPE html>
<html>
 <head>
  <title>TABLE</title>
  <style>
   .first {
     border: 2px;
     border-style: inset;
     text-align: center;
   }
   table {
     border: 2px;
     border-style: outset;
   }
  </style>
 </head>
 <body>
  <center>
   <table>
```

```html
<tr>
  <td style="width: 500px; height: 25px" colspan="7">
    <center>Example of Perfect Square using table.</center>
  </td>
</tr>
<tr class="first">
  <th rowspan="7" class="first">Int 1</th>
  <th rowspan="2" class="first">n*n</th>
  <th colspan="5" class="first">Int 2</th>
</tr>
<tr class="first">
  <td class="first">1</td>
  <td class="first">2</td>
  <td class="first">3</td>
  <td class="first">4</td>
  <td class="first">5</td>
</tr>
<tr class="first">
  <td class="first">1</td>
  <th class="first">1</th>
  <td class="first">2</td>
  <td class="first">3</td>
  <td class="first">4</td>
  <td class="first">5</td>
</tr>
<tr class="">
  <td class="">2</td>
  <td class="first">2</td>
  <th class="first">4</th>
  <td class="first">6</td>
  <td class="first">8</td>
  <td class="first">10</td>
</tr>
<tr class="first">
  <td class="first">3</td>
  <td class="first">3</td>
  <td class="first">6</td>
  <th class="first">9</th>
```

```html
      <td class="first">12</td>
      <td class="first">15</td>
    </tr>
    <tr class="first">
     <td class="first">4</td>
     <td class="first">4</td>
     <td class="first">8</td>
     <td class="first">12</td>
     <th class="first">16</th>
     <td class="first">20</td>
    </tr>
    <tr class="first">
     <td class="first">5</td>
     <td class="first">5</td>
     <td class="first">10</td>
     <td class="first">15</td>
     <td class="first">20</td>
     <th class="first">25</th>
    </tr>
   </table>
  </center>
 </body>
</html>
```

OUTPUT:

Example of Perfect Square using table.						
Int 1	n*n	Int 2				
		1	2	3	4	5
	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	20
	4	4	8	12	16	20
	5	5	10	15	20	25

PROBLEM STATEMENT:2

   Create a registration form for XYZ University. The form should look as shown in the image below.

The validations for each field are described below:

- **First Name**: Required, max 10 characters
- **Last Name**: Required, max 10 characters
- **Date of birth**: Required
- **Gender**: Should contain three radio buttons for three options as "Male", "Female" and "Other". Only one option must be selected
- **Degree**: Dropdown should contain "Bachelors", "Masters" and "Doctorate"
- **Specialization**: Required, max 40 characters
- **Current GPA**: Required, max value 5, increment in steps of 0.1
- **Phone Number**: Required
- **Address**: Required, max 4 rows of 40 characters each.

PROGRAM:

```
<!DOCTYPE html>
<html>
  <head>
    <title>problem2</title>
  </head>
  <body>
    <br>
    <center>
      <form>
          <label>First Name:<span style="color:red;">*</span></label>
          <input type="text" required maxlength="10">
          <br><br>
          <label>Last Name:<span style="color:red;">*</span></label>
          <input type="text" required maxlength="10">
          <br><br>
          <label>Date of birth:<span style="color:red;">*</span></label>
          <input type="date"required>
          <br><br>
          <label>Gender:</label>
          <input type="radio" name="gender"/>Male
          <input type="radio" name="gender"/>Female
          <input type="radio" name="gender"/>Other
```

```html
        <br><br>
        <label>Degree:</label>
        <select>
            <option value="Bachelors">Bachelors</option>
            <option value="Masters">Masters</option>
            <option value="Doctorate">Doctorate</option>
        </select>
        <br><br>
        <label>Specialization:</label>
        <input type="text" maxlength="40">
        <br><br>
        <label>Current GPA:</label>
        <input type="number" min="0" max="5" step="0.1">
        <br><br>
        <label>Phone Number:</label>
        <input type="text">
        <br><br>
        <label>Address:</label>
        <textarea rows="4">
        <br><br>
    </form>
  </center>
  </body>
</html>
```
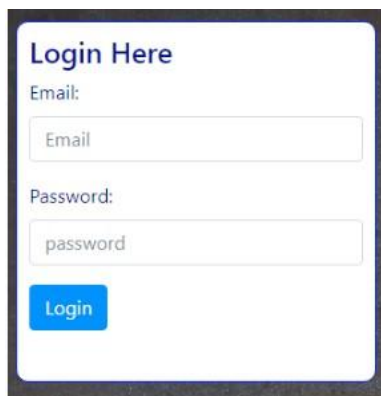
OUTPUT:

First Name:* [   ]

Last Name:* [   ]

Date of birth:*

Gender: ○ Male ○ Female ○ Other

Degree: [▼]

Specialization: [   ]

Current GPA:

Phone Number: [   ]

Address: [text area with scrollbars]

PROBLEM STATEMENT:3

- Write a program for sample output using html and css

Login Here form with Email, Password fields and Login button

PROGRAM:

```
<!DOCTYPE html>
<html>
 <head>
  <title>problem3</title>
  <style>
   .button {
     background-color: rgb(25, 110, 230);
     color: white;
     border-radius: 5px;
     width: 70px;
     height: 40px;
     font-size: 12px;
     font-family: sans-serif;
```

```
    }
    .first {
      border: 15px solid rgb(14, 14, 58);
      border-radius: 12px;
      width: 300px;
      margin: auto;
      padding-bottom: 30px;
      padding-left: 10px;
      height: 300px;
      font-family: sans-serif;
    }
    body {
      margin-top: 40px;
      font-family: sans-serif;
      color: darkblue;
    }
  </style>
</head>
<body>
  <div class="first">
    <h2 style="color: darkblue">Login Here</h2>
    <form>
      <label>Email:</label>
      <br />
      <br />
      <input
        style="width: 90%; height: 30px"
        type="email"
        placeholder="Email"
      />
      <br />
      <br />
      <label>Password:</label>
      <br />
      <br />
      <input
        type="password"
        style="width: 90%; height: 30px"
```
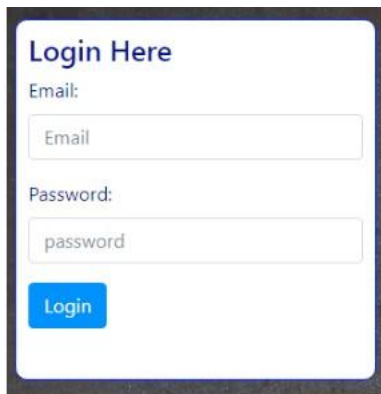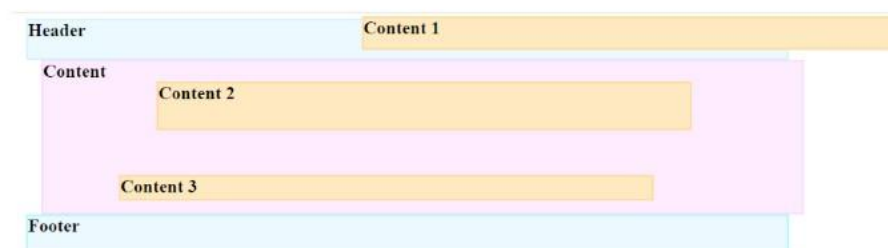
```
      placeholder="password"
    />
    <br />
    <br />
    <input type="button" value="Login" class="button" />
  </form>
</div>
</body>
</html>
```

OUTPUT:

PROBLEM STATEMENT:4

- Write a program for sample output using html and css

PROGRAM:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <title>PROBLEM-4</title>
  <style>
```

```css
.top {
  background-color: lightblue;
  height: 50px;
  width: 85%;
  margin: 0px;
  margin-top: 0.3em;
  font-weight: bold;
}
.center {
  background-color: lightpink;
  height: 200px;
  margin: 0px;
  margin-left: 1.5em;
  margin-top: 0px;
  width: 85%;
  font-weight: bold;
}
.bottom{
  background-color: lightblue;
  height: 50px;
  margin: 0px;
  width: 85%;
  font-weight: bold;
}
.one {
  background-color: lightsalmon;
  position: absolute;
  top: 80px;
  left: 260px;
  height: 60px;
  width: 60%;
  font-weight: bold;
}
. two{
  background-color: lightsalmon;
  position: absolute;
  top: 210px;
  left: 200px;
```

```css
      height: 30px;
      width: 55%;
      font-weight: bold;
    }
    .three {
      background-color: lightsalmon;
      margin-top: 0%;
      margin-left: 50%;
      position: absolute;
      top: 10px;
      left: 0px;
      height: 25px;
      width: 100%;
      font-weight: bold;
    }
  </style>
 </head>
 <body>
  <div class="top">
    Header
    <div class="three">Content 1</div>
  </div>
  <div class="center">
    Content
    <div class="one">Content 2</div>
    <div class="two">Content 3</div>
  </div>
  <div class="bottom">Footer</div>
 </body>
</html>
```

OUTPUT: