Practical 1

Aim: To design a two-column representation of text-based question using <table> and <p>.

Code:

```
<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>First Page</title>

</head>

<body>

    <table width="100%">

        <tr>

            <td width="50%">

                <p>Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.</p>

            </td>

            <td width="50%">

                <p align="right">

                    Question: In vacuum, the speed of light depends upon:
                    <br><br>

                        (a) frequency
```

```
            <br><br>

                    (b) velocity

            <br><br>

                    (c) wave length

            <br><br>

                    (d) None of these

        </p>

    </td>

  </tr>

</table>


</body>

</html>
```

OUTPUT-

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

Question: In vacuum, the speed of light depends upon :

(a) frequency

(b) velocity

(c) wave length

(d) None of these

Aim2: To implement various different input types and <select> tag.

Code:

<!DOCTYPE html>

<html>

<head>

        <meta charset="utf-8">

        <meta name="viewport" content="width=device-width, initial-scale=1">

        <title>Login Page</title>

</head>

```
<body>
    <div align="center">
        <form>
            <label>Username</label>
            <input type="text" name="user" value="Enter Username">
            <br><br>
            <label>Password</label>
            <input type="password" name="pass">
            <br><br>
            <label>
                Enter your current year:
            </label>
            <br><br>
            <input type="radio" name="option1">
            <label>First Year</label>
            <br><br>
            <input type="radio" name="option1">
            <label>Second Year</label>
            <br><br>
            <input type="radio" name="option1">
            <label>Third Year</label>
            <br><br>
            <input type="radio" name="option1">
            <label>Fourth Year</label>
            <br><br>
            <label>Select any 2 of the elective subjects: </label>
            <br><br>

            <label>Web Development</label>
            <input type="checkbox" name="option2">
            <br><br>
```

```
<label>Python for Data Science</label>
<input type="checkbox" name="option2">
<br><br>


<label>Adavnced Java Programming</label>
<input type="checkbox" name="option3">
<br><br>


<label>Distributed Computing</label>
<input type="checkbox" name="option3">
<br><br>
Tell us something about you:
<br><br>
<textarea rows="10" cols="100">
</textarea>
<br><br>
Date of Birth
<input type="date" name="dob">
<br><br>
Upload your Marksheet:
<input type="file" name="filemarksheet">
<br><br>
Select Your Branch:
<select>
        <option value="IT">IT</option>
        <option value="EC">EC</option>
        <option value="EE">Electrical</option>
        <option value="FT">FT</option>
        <option value="CP">CP</option>
        <option value="CSD">CSD</option>
```

```
                <option value="Auto">Automobile</option>

                <option value="Mech">Mechanical</option>

            </select>

            <br><br>

            <input type="Submit">

        </form>

    </div>

</body>

</html>
```

OUTPUT-

Username	Enter Username
Password	

Enter your current year:

○ First Year

○ Second Year

○ Third Year

○ Fourth Year

Select any 2 of the elective subjects:

Web Development ☐

Python for Data Science ☐

Adavnced Java Programming ☐

Distributed Computing ☐

Tell us something about you:

Date of Birth dd-mm-yyyy

Upload your Marksheet: Choose File No file chosen

Select Your Branch: CP

Submit

Practical 2

Aim: To learn the use of <a> anchor tag and link different web pages.

Code1:

```html
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1 align="center">First Page</h1>
<br><br><br>
<a href="b2.html">next</a><br>
<br><br><br>
<table width="100%">
  <tr>
    <td width="33%">
      <img src="OMEN_Blur_3.png" alt="Space Image" width="100%"
        style="box-shadow:0 4px 6px 0 rgba(0,0,0,0.2),0 4px 14px 0
        rgba(0,0,0,0.2);">
    </td>
    <td width="33%">
      <img src="Gradient.png" alt="" width="100%"
        style="box-shadow:0 4px 6px 0 rgba(0,0,0,0.2),0 4px 14px 0
        rgba(0,0,0,0.2);">
    </td>
  </table>
  </body>
</html>
```

Output:

First Page

next

Code:

```
<!DOCTYPE html>

<html>

  <head>

  </head>

  <body>

    <h1 align="center">Second Page</h1>

  <a href="a2.html">Prev</a>

  <a href="c2.html">next</a><br><br><br>

  <img src="spiderman-miles-lost-in-space-4k-0f.jpg" alt="" width="60%"

    style="box-shadow:0 4px 6px 0 rgba(0,0,0,0.2),0 4px 14px 0

    rgba(0,0,0,0.2);">

  </body>

</html>
```

Output:

Second Page

Prev next

Aim2: To learn the use of meta tag and its attributes.

Code:

```
<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

        <meta name="Description" content="This is official website ADIT. It has 8 branches. It is good college">

        <meta name="Author" content="Tarang"><!--Author or ownership of content-->

        <meta name="Keyword" content="College,Engineering,Gujarat,MBIT,GCET,ADIT,Engineering College,Computer Engineering,CS,Computer Science,FPT,Food processing and Technology"><!--used for displaying if keyword is searched-->
```

```
    <meta name="viewport" content="width=device-width,minimum-scale=1,initial-scale=1"><!--screen display ratio in different devices-->

    <meta http-equiv="refresh" content="5"><!---used for refreshing continously-->

  </head>

  <body>

    <h1>Welcome To A.D. Patel Institute of Technology.</h1>


  </body>
</html>
```

Output:

Welcome To A.D. Patel Institute of Technology.

Practical 3

Aim: Creating a class for applying css to table and special effects to <tr> and also applying the box shadow to same.

Code:

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>New Page</title>

    <style>

        .t1{

width:200px;

border:1px solid lightblue;

border-collapse: collapse;

}

.t2{

border:1px solid lightblue;

border-collapse: collapse;

}

.t3{

    position:absolute;

    top:200px;

    left:100px;

    transform:rotate(-20deg);
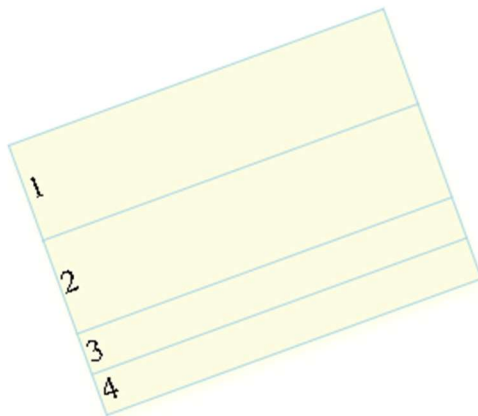
    width:200px;

    border:1px solid lightblue;

    border-collapse: collapse;

    background-color: rgb(252, 252, 226);

```
        }
        .tr1{
            height: 50px;
            border:1px solid lightblue;
            border-collapse: collapse;
        }
         </style>
</head>
<body>
        <table class="t3" style="box-shadow:0px 4px 6px 0 rgba(255,255,201,0.2),0px 4px
6px 0 rgba(255,255,201,0.2)">
        <tr class="tr1">
            <td>1</td>
        </tr>
        <tr class="tr1">
            <td>2</td>
        </tr>
        <tr class="tr1" style="height:20px">
            <td>3</td>
        </tr>
        <tr class="tr1" style="height:20px">
            <td class="t2">4</td>
        </tr>
    </table>


</body>
*</html>
```
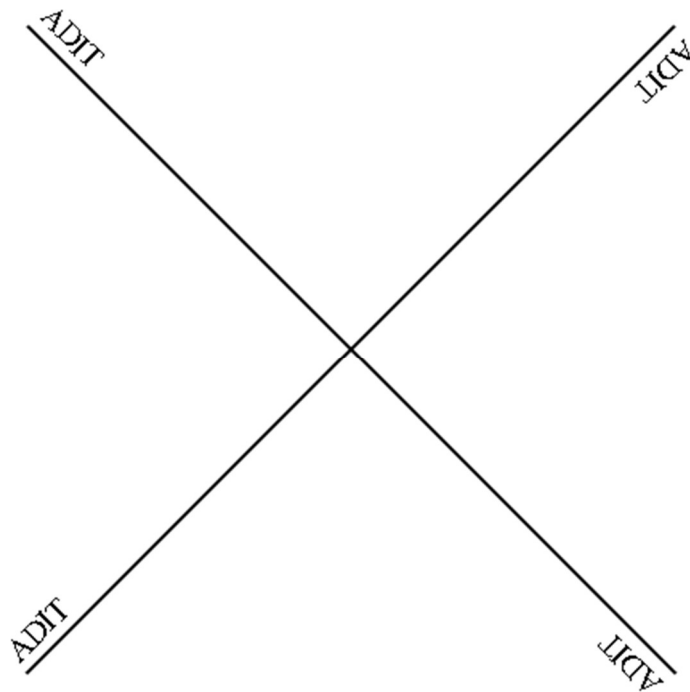
OUTPUT-

Practical 4

Aim: To study transform and position properties in css.

Code:

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta http-equiv="refresh" content="5">
    <meta name="viewport" content="width=device-width,minimum-scale=1,initial-scale=1">
    <style>
.c1{
      border-bottom: 2px solid;
      padding-bottom:0px;
    }
    .s1{
      transform: rotate(180deg);
      padding-bottom:0px;
    }
    </style>
  </head>
  <body>
<table style="position:absolute;top:100px;transform: rotate(45deg);" width="30%">
    <tr>
      <td class="c1"  align="left">ADIT</td>
    </tr>
    <tr>
      <td class="s1"><span>ADIT</span></td>
    </tr>
  </table>
  <table style="position:absolute;top:100px;transform: rotate(-45deg);" width="30%" >
    <tr>
      <td class="c1" align="left">ADIT</td>
    </tr>
    <tr>
```

```
        <td class="s1"><span>ADIT</span></td>
    </tr>
</table>

    </body>
</html>
```

Output:

Practical 5

Aim: To study basic overlay effect.

Code:

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="refresh" content="5">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
.work {
    width: 300px;
    /* background-color: rgb(80, 48, 196); */
    height: 300px;
    background-image: url(pic.jpg);
    background-repeat: 1;
    background-size: 300px;

}

.work1 {
    background: linear-gradient(rgba(0, 0, 0, 0.9), rgba(0, 0, 0, 0.2));
    width: 100%;
    height: 100%;
    position: relative;
    text-align: center;
}

.work1:hover {
    background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0));
    width: 100%;
    height: 100%;
    position: relative;
```
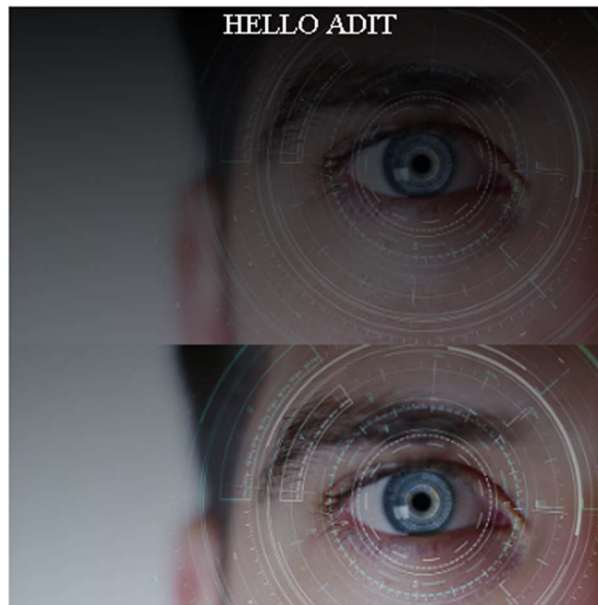
```
        text-align: center;
    }


    .work2 {
        background: linear-gradient(rgba(0, 0, 0, 0), rgba(0, 0, 0, 0.7));
        position: relative;
        top: 220px;
        bottom: 0px;
        height: 40px;
        /* bottom: 0px; */
        /* background-color: bisque; */
        text-align: center;
    }


    .work3 {
        font-size: 15px;
        color: white;
    }

    </style>
</head>
<body>
    <div class="work">
        <div class="work1">
            <span class="hello"> Hello ADIT </span>
        </div>
        <!-- <div class="work2">
            <span class="hello"> Welcome </span>
        </div> -->
    </div>
</body>
</html>
```

Output:

Practical 6

Aim: To learn to apply media query and its application.
Code:

```html
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>New</title>
    <style type="text/css">
        .div1{
            height: 500px;
            width: 15%;
            background-color: royalblue;
            float: right;
        }
        .div2{
            height: 500px;
            width: 70%;
            background-color: skyblue;
            float: right;
        }
        @media only screen and (max-width: 600px)
        {
            .div1{
            height: 200px;
            width: 100%;
            background-color: royalblue;
            }
        .div2{
            height: 200px;
            width: 100%;
            background-color: skyblue;
            }
        }
```

```
        </style>
    </head>
    <body>
        <div class="div1"></div>
        <div class="div2"></div>
        <div class="div1" style="background-color: darkblue;"></div>
    </body>
</html>
```

Output:

Aim: To create a navigation bar that shrinks into a vertical menu using media query.

Code:

```html
<!Doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,minimum-scale=1,initial-scale=1">
    <style>
      .home{
        background-color:rgb(218,8,18);
        text-align: center;
        line-height: 32px;
        font-size:large;
        color:rgb(255,255,255);
        width:9.09%;
        float:right;
        height:30px;


      }
      .home:hover{
        background-color:rgb(117, 115, 115);
        text-align: center;
        font-size:large;
        color:rgb(255,255,255);

      }
      .AboutUs{
        background-color: rgba(142, 142, 142,0.5);
        line-height: 32px;
        text-align: center;
        font-size:large;
        width:9.09%;
```

```css
      float:right;
      height:30px;



   }
.AboutUs:hover{
   background-color: rgba(117, 115, 115);
   text-align: center;
   font-size:large;
   color:rgb(255,255,255);


}
.Programs{
   background-color: rgba(142, 142, 142,0.5);
   line-height: 32px;
   text-align: center;
   font-size:large;
   width:9.09%;
   float:right;
   height:30px;



}
.Programs:hover{
   background-color: rgba(117, 115, 115);
   text-align: center;
   font-size:large;
   color:rgb(255,255,255);
}
.Courses{
   background-color: rgba(142, 142, 142,0.5);
   line-height: 32px;
   text-align: center;
   font-size:large;
   width:9.09%;
   float:right;
   height:30px;
```

```
        }
        .Courses:hover{
          background-color: rgba(117, 115, 115);
          text-align: center;
          font-size:large;
          color:rgb(255,255,255);
        }
        .Placement{
          background-color: rgba(142, 142, 142,0.5);
          line-height: 32px;
          text-align: center;
          font-size:large;
          width:9.09%;
          float:right;
          height:30px;


        }
        .Placement:hover{
          background-color: rgba(117, 115, 115);
          text-align: center;
          font-size:large;
          color:rgb(255,255,255);
        }
        .Admission{
          background-color: rgba(142, 142, 142,0.5);
          text-align: center;
          font-size:large;
          width:9.09%;
          float:right;
          height:30px;


        }
        .Admission:hover{
          background-color: rgba(117, 115, 115);
          text-align: center;
          font-size:large;
```

```css
      color:rgb(255,255,255);
}
.StudentCorner{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:9.09%;
   float:right;
   height:30px;



}
.StudentCorner:hover{
   background-color: rgba(117, 115, 115);
   text-align: center;
   font-size:large;
   color:rgb(255,255,255);

}
.Research{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:9.09%;
   float:right;
   height:30px;

}
.Research:hover{
   background-color: rgba(117, 115, 115);
   text-align: center;
   font-size:large;
   color:rgb(255,255,255);

}
.AICTE{
   background-color: rgba(142, 142, 142,0.5);
```

```css
        text-align: center;
        font-size:large;
        width:9.09%;
        float:right;
        height:30px;

    }
    .AICTE:hover{
        background-color: rgb(82, 79, 79);
        text-align: center;
        font-size:large;
        color:rgb(255,255,255);

    }
    .Campus{
        background-color: rgba(142, 142, 142,0.5);
        text-align: center;
        font-size:large;
        width:9.09%;
        float:right;
        height:30px;

    }
    .Campus:hover{
        background-color: rgba(117, 115, 115);
        text-align: center;
        font-size:large;
        color:rgb(255,255,255);

    }
    .Contact{
        background-color: rgba(142, 142, 142,0.5);
        text-align: center;
        font-size:large;
        width:9.09%;
        float:right;
        height:30px;
```

```
        }
        .Contact:hover{
            background-color: rgba(117, 115, 115);
            text-align: center;
            font-size:large;
            color:rgb(255,255,255);

        }
        @media only screen and (max-width:600px)
        {

            .home{
                background-color:rgb(218,8,18);
                text-align: center;
                font-size:large;
                color:rgb(255,255,255);
                width:100%;
                height:32px;
                border-bottom: 1px solid;

            }
            .AboutUs{
                background-color: rgba(142, 142, 142,0.5);
                text-align: center;
                font-size:large;
                width:100%;
                height:30px;
                border-bottom: 1px solid;


            }

            .Programs{
                background-color: rgba(142, 142, 142,0.5);
                text-align: center;
                font-size:large;
```

```css
      width:100%;
      border-bottom: 1px solid;
      height:30px;


    }

    .Courses{
      background-color: rgba(142, 142, 142,0.5);
      text-align: center;
      font-size:large;
      width:100%;
      height:30px;
      border-bottom: 1px solid;


    }

    .Placement{
      background-color: rgba(142, 142, 142,0.5);
      text-align: center;
      font-size:large;
      width:100%;
      height:30px;
      border-bottom: 1px solid;



    }

    .Admission{
      background-color: rgba(142, 142, 142,0.5);
      text-align: center;
      font-size:large;
      width:100%;
      border-bottom: 1px solid;
      height:30px;


    }
```

```css
.StudentCorner{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:100%;
   height:30px;
   border-bottom: 1px solid;


}
.Research{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:100%;
   height:30px;
   border-bottom: 1px solid;


}
.AICTE{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:100%;
   height:30px;

   border-bottom: 1px solid;
}
.Campus{
   background-color: rgba(142, 142, 142,0.5);
   text-align: center;
   font-size:large;
   width:100%;
   height:30px;

   border-bottom: 1px solid;
}
```

```
        .Contact{
            background-color: rgba(142, 142, 142,0.5);
            text-align: center;
            font-size:large;
            width:100%;
            height:30px;

            border-bottom: 1px solid;
        }
    }
  </style>

</head>
<body>

    <div class="home"> Home</div>
    <div class="AboutUs"> About Us</div>
    <div class="Programs">Programs </div>
    <div class="Courses"> Courses</div>
    <div class="Placement"> Placement</div>
    <div class="Admission"> Admission</div>
    <div class="StudentCorner"> Student Corner</div>
    <div class="Research"> Research/COE</div>
    <div class="AICTE"> AICTE Idea Lab</div>
    <div class="Campus"> Campus</div>
    <div class="Contact">Contact</div>

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

Output:

Contact	Campus	AICTE Idea Lab	Research/COE	Student Corner	Admission	Placement	Courses	Programs	About Us	Home

Home
About Us
Programs
Courses
Placement
Admission
Student Corner
Research/COE
AICTE Idea Lab
Campus
Contact

Practical 7

Aim: Creating animation using keyframes and learning the use of animation-duration.

Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <!-- <meta http-equiv="refresh" content="5"> -->
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
      .but{
        animation: switch;
        animation-duration:4s;
        width:90px;
        height: 40px;
        background:linear-gradient(rgba(33, 223, 175, 0.6),rgba(37, 39, 179, 0.3));
        border:none;
        border-radius: 5px;
      }

      @keyframes switch
      {
        0% {transform: rotate(0deg);}
        25% {transform: rotate(20deg);}
        /* 45% {transform: rotate(0deg);} */
        70% {transform: rotate(-15deg);}
        100% {transform: rotate(0deg);}
      }
    </style>
  </head>
  <body>
    <br><br><br>
```
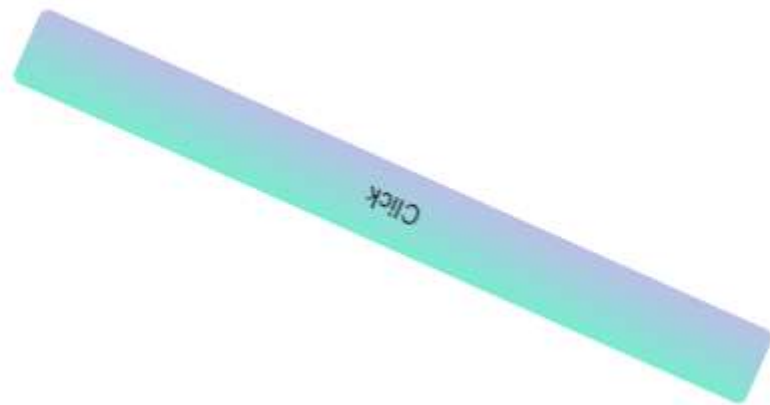
```html
    <center><button class="but">Hello</button></center>
  </body>
</html>
```

Output:

Part 2: Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
      .but{
        animation: switch;
        animation-duration:2s;
        width:400px;
        height:40px;
        background:linear-gradient(rgba(33, 223, 175, 0.6),rgba(37, 39, 179, 0.3));
        border:none;
        border-radius: 5px;
      }
      @keyframes switch{
        0% {transform:rotate(360deg)}
```

```
        100% {transform:rotate(3600deg)}
      }
    </style>
  </head>
  <body><br><br><br><br><br><br><br><br>
    <center><button class="but">Click</button></center>
  </body>
</html>
```
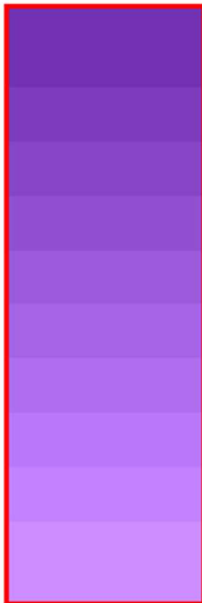
Output:

Practical 8

Aim: Creating a color pallet using javascript.
Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Layers</title>
  </head>
  <body>
  <script>
  var i = 115; var j = 50; var k = 180; var y = 0;
  document.write("<table style=\"border:2px solid red;border-
collapse:collapse;width:100px;height:300px;\">")
  for (y = 1; y <= 10; y++) {
    document.write("<tr>")
    document.write("<td style=\"background-color:rgb(" + i + "," + j + "," + k
+ "\");>")
    document.write("</td>")
    document.write("</tr>")
    i = i + 10;
    j = j + 10;
    k = k + 10;
  }
  document.write("</table>")
</script>
      </table>
    </body>
  </html>
```

Output:

Practical 9

Aim: Creating a simple calculator using JavaScript.

Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script>
      var v1,v2,v3;
      function add()
      {
        v1 = document.getElementById("v1").value;
        v2 = document.getElementById("v2").value;
        v3 = parseFloat(v1) + parseFloat(v2);
        document.getElementById("Ans").innerHTML=v3;
      }
      function sub()
      {
        v1 = document.getElementById("v1").value;
        v2 = document.getElementById("v2").value;
        v3 = parseFloat(v1) - parseFloat(v2);
        document.getElementById("Ans").innerHTML=v3;
      }
      function mul()
      {
        v1 = document.getElementById("v1").value;
        v2 = document.getElementById("v2").value;
        v3 = parseFloat(v1) * parseFloat(v2);
        document.getElementById("Ans").innerHTML=v3;
      }
      function div()
```

```
        {
            v1 = document.getElementById("v1").value;
            v2 = document.getElementById("v2").value;
            if(v2 != 0 )
            {
                v3 = parseFloat(v1) / parseFloat(v2);
                document.getElementById("Ans").innerHTML=v3;
            }
            else
            {
                document.getElementById("Ans").innerHTML="Error";
            }
        }
    </script>
</head>
<body>
    <label>Value 1:</label>
    <input type="number" id="v1"><br><br>
    <label>Value 2:</label>
    <input type="number" id="v2"><br><br>
    Ans:
    <span id="Ans">

    </span><br><br>
    <button onclick="add()">ADD</button>
    <button onclick="sub()">SUBTRACT</button>
    <button onclick="mul()">MULTIPLY</button>
    <button onclick="div()">DIVIDE</button>
</body>
</html>
```

Output:

Value 1: [   ]

Value 2: [   ]

Ans:

[ADD] [SUBTRACT] [MULTIPLY] [DIVIDE]

Aim2: Creating a game of tic-tac-toe using javascript.

Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>CrossAndZero</title>
.c1 {
    text-align: center;
    height: 30px;
    width: 30px;
  }
</style>
<script>
  function funcX1() {
    document.getElementById("td1").innerHTML = "X";
  }
  function funcX2() {
    document.getElementById("td2").innerHTML = "X";
  }
  function funcX3() {
    document.getElementById("td3").innerHTML = "X";
  }
  function funcX4() {
    document.getElementById("td4").innerHTML = "X";
  }
  function funcX5() {
    document.getElementById("td5").innerHTML = "X";
  }
  function funcX6() {
    document.getElementById("td6").innerHTML = "X";
  }
  function funcX7() {
```

```
      document.getElementById("td7").innerHTML = "X";
    }
    function funcX8() {
      document.getElementById("td8").innerHTML = "X";
    }
    function funcX9() {
      document.getElementById("td9").innerHTML = "X";
    }
    function funcO1() {
      document.getElementById("td1").innerHTML = "O";
    }
    function funcO2() {
      document.getElementById("td2").innerHTML = "O";
    }
    function funcO3() {
      document.getElementById("td3").innerHTML = "O";
    }
    function funcO4() {
      document.getElementById("td4").innerHTML = "O";
    }
    function funcO5() {
      document.getElementById("td5").innerHTML = "O";
    }
    function funcO6() {
      document.getElementById("td6").innerHTML = "O";
    }
    function funcO7() {
      document.getElementById("td7").innerHTML = "O";
    }
    function funcO8() {
      document.getElementById("td8").innerHTML = "O";
    }
    function funcO9() {
      document.getElementById("td9").innerHTML = "O";
    }
  </script>
```

```html
      </head>
      <body>
X
   <button onclick="funcX1()">1</button>
   <button onclick="funcX2()">2</button>
   <button onclick="funcX3()">3</button>
   <button onclick="funcX4()">4</button>
   <button onclick="funcX5()">5</button>
   <button onclick="funcX6()">6</button>
   <button onclick="funcX7()">7</button>
   <button onclick="funcX8()">8</button>
   <button onclick="funcX9()">9</button>
   <br><br>
   <table style="width: 99px;height:99px;border-collapse: collapse;font-size:
30px;">
      <tr>
         <td class="c1" id="td1" style="border-bottom: 1px solid black;">-</td>
         <td class="c1" id="td2" style="border-bottom: 1px solid black;
         border-left: 1px solid black;
         border-right: 1px solid black;">-</td>
         <td class="c1" id="td3" style="border-bottom: 1px solid black;">-</td>
      </tr>
      <tr>
         <td class="c1" id="td4" style="border-bottom: 1px solid black;">-</td>
         <td class="c1" id="td5" style="border-bottom: 1px solid black;
         border-left: 1px solid black;
         border-right: 1px solid black;">-</td>
         <td class="c1" id="td6" style="border-bottom: 1px solid black;">-</td>
      </tr>
      <tr>
         <td class="c1" id="td7">-</td>
         <td class="c1" id="td8" style="border-left: 1px solid black;
         border-right: 1px solid black;">-</td>
         <td class="c1" id="td9">-</td>
      </tr>
   </table><br>
   O
```

```html
<button onclick="funcO1()">1</button>
<button onclick="funcO2()">2</button>
<button onclick="funcO3()">3</button>
<button onclick="funcO4()">4</button>
<button onclick="funcO5()">5</button>
<button onclick="funcO6()">6</button>
<button onclick="funcO7()">7</button>
<button onclick="funcO8()">8</button>
<button onclick="funcO9()">9</button>

    </body>
 </html>
```

Output:

Aim3: Overwriting button with a function in javascript.
Code:

```html
<!DOCTYPE html>
<html lang="en">
   <head>
      <meta charset="UTF-8">
      <meta http-equiv="X-UA-Compatible" content="IE=edge">
      <meta name="viewport" content="width=device-width, initial-
scale=1.0">
      <title>Document</title>
      <script>
        function hello()
        {
```

```
        // document.write("function called!");
        document.getElementById("above").innerHTML="Function called
Above!";
        document.getElementById("below").innerHTML="Function called
Below!";

        }
    </script>
  </head>
  <body>
    <br>
    <!--here the button will overwritten with function called!-->
    <p id="above">

    </p>
    <button onclick="hello();">click</button>
    <p id="below">

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

Output:

Function called Above!

click

Function called Below!

Aim4: Checking the length of phone number using JavaScipt.
Code:
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```html
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
    <script>
      function Student_Data()
      {
        var name;
        name = document.getElementById("name").value;
        phno = document.getElementById("Pno").value;
        if(phno.length != 10)
        {
          document.getElementById("ErrorNo").innerHTML = "Invalid
Phone no.";
        }
      }
    </script>
  </head>
  <body>
      Name:<input type="text" id="name"><br><br>
      EnNo.:<input type="number" id="eno"><br><br>
      Branch:<input type="text" id="branch"><br><br>
      PhNo.:<input type="number" id="Pno"><br><br>
      <p id="ErrorNo"></p>
      Email:<input type="email" id="email"><br><br>
    <p id="para">
    </p>
    <button onclick="Student_Data()">Submit Data!</button>

  </body>
</html>
```

Output:

Name : TarangJangle

EnNo.: 12002040601064

Branch: CP

PhNo.: 093874834880342

Invalid Phone no.

Email : pqr123@gmail.com

Submit Data!

Practical 10

Aim: **To take input from user and find the length of it and slice it.**

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script>
      function func1()
      {
        var text1 = document.getElementById("name").value;
        document.getElementById("data1").innerHTML=text1;
        var text2 = text1.length;
        document.getElementById("data2").innerHTML=text2;
        //charAt
        text2 = text1.charAt(2);
        document.getElementById("data3").innerHTML=text2;

        LocaleCompare
        text2="ADIT";
        text3 = text1.localeCompare(text2);
        document.getElementById("data4").innerHTML=text3;

        // Slicing - cutting the string from 3 of length 8
        text3 = text1.slice(-3,8);
        document.getElementById("data5").innerHTML=text3;

        // substring
        text3 = text1.substring(3,8);
        document.getElementById("data6").innerHTML=text3;
```

```
        // toUpperCase
        text3 = text1.toUpperCase();
        document.getElementById("data7").innerHTML=text3;

        //replace
        text3 = text1.replace("are","and");
        document.getElementById("data8").innerHTML=text3;

    }
  </script>

</head>
<body>
  <label>Name:</label>
  <input type="text" id="name"><br><br>
  <!-- <input type="text" id="email"> -->
  <input type="submit" value="Submit Data" onclick="func1()">
  <p id="data"></p>
  <p id="data1"></p>
  <p id="data2"></p>
  <p id="data3"></p>
  <p id="data4"></p>
  <p id="data5"></p>
  <p id="data6"></p>
  <p id="data7"></p>
</body>
</html>
```

Output:

Name : TarangJangle

TarangJangle

12

a

Submit Data!

Practical 11

Aim: To set a clock using JavaScript having start and stop buttons.
Code:

```html
<!DOCTYPE html>
    <html lang="en">
      <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-
    scale=1.0">
        <title>Document</title>
        <script>
          var hour=0;
          var min=0;
          var sec=0;
          function clock()
          {
            sec = sec + 1;
            if(sec<60)
            {

    document.getElementById("clk").innerHTML=hour+":"+min+":"+sec;
            }
            else
            {
              min = min+1;
              sec = 0;
              if(min<60)
              {
                document.getElementById("clk").innerHTML =
    hour+":"+min+":"+sec;
              }
              else
              {
                hour = hour + 1;
                min = 0;
```

```
            document.getElementById("clk").innerHTML =
hour+":"+min+":"+sec;
            }
            //windows.location.href do for some min and used to switch to
new page.
            }
        }
    </script>
</head>
<body>
    <script>
        function start()
        {
            const clock1 = setInterval(clock,1000);
        }
        function stop()
        {
            // document.getElementById("clk").innerHTML="0:0:0";
            clearInterval(clock1);
        }
    </script>
    <p id="clk">

    </p>
    <button onclick=start()>start</button>
    <button onclick=stop()>stop</button>
</body>
</html>
```

Output:

0:1:23

start stop

Practical 12

Aim: Write a Sample Program in PHP

Code:

```
<! DOCTYPE html>
<html>
<body>
<?php
echo " <h1> <center> Hello, Welcome to PHP Program </h1> </center></br>";
echo "Computer Engineering, ADI"
?>
</body>
</html>
```

OUTPUT-

Hello, Welcome to PHP Program

Computer Engineering, ADI

Aim: To store values in a variable and also print sum of 2 numbers.

Code:

```
<! DOCTYPE html>
<html>
<body>
<?php
$a = "ADIT";
$b ='c';
$x = 14;
$y = 102.55;
$z = $x+$y;

echo "Hello " .$a. " Welcome <br>";
echo "Total is ". $z;
?>
</body>
</html>
```

OUTPUT-

Hello ADIT Welcome
Total is 116.55

Aim: Checking session variables that were set on previous page.

Code:

```php
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>
<?php
$_SESSION["col"] = "ADIT";
$_SESSION["branch"] = "CP";
?>
//Checking session variables<br>
<?php
// Echo session variables that were set on previous page
echo "Welcome, your college is " . $_SESSION["col"] . ".<br>";
echo "Your Branch is " . $_SESSION["branch"] . ".";
?>
</body>
</html>
```

OUTPUT-

//Checking session variables
Welcome, your college is ADIT.
Your Branch is CP.

Aim: Printing a variable and converting it to upper case in php.

Code:

```php
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
  </head>
  <body>
    <?php
      $x = "adit";
      echo strtoupper($x);
    ?>
```

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

Output:

ADIT