

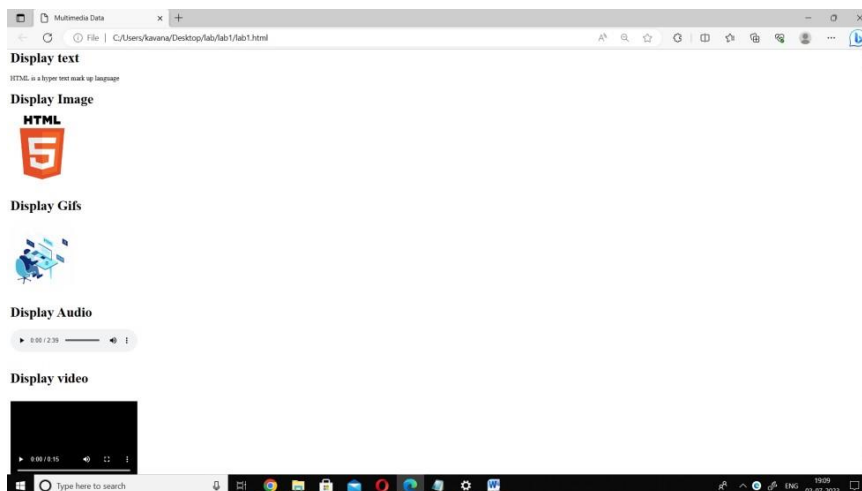
Computer Multimedia and Animation lab

Part-A

1.write a HTML program to display Multi-media data (text, image, audio, video, gif, etc) on a webpage.

```
<!DOCTYPE html>
<html>
<head>
  <title>Multimedia Data</title>
</head>
<body>
  <h1>Display text</h1>
  <p> HTML is a hyper text mark up language</p>
  <h1> Display Image</h1>
    <br><br>
  <h1> Display Gifs</h1>
    <br><br>
  <h1> Display Audio </h1>
    <audio controls >
      <source src="audio.mp3" type="audio/mp3">
    </audio><br><br>
  <h1> Display video </h1>
    <video controls height="200" width="300">
      <source src="video.mp4" type="video/mp4">
    </video>
</body>
</html>
```

Output:



2. Write a HTML program to create and display navigations using list tags and anchor tag

Lab2.html

```
<html>
<head>
  <style>
    nav{ background-color:pink;}
  </style>
</head>
<body>
  <h1 align="center"style="background-color:blue;
    color:yellow;">Demonstrating HTML Lists and Anchor tag</h1>
  <nav>
    <ol>
      <li><a href="home.html">HOME</a></li><br>
      <li><a href="contact.html">CONTACT</a></li>
    </ol>
  </nav>
</body>
</html>
```

home.html

```
<html>
<body>
  <h1> HOME PAGE</h1>
</body>
</html>
```

contact.html

```
<html>
<body>
  <h1> CONTACT PAGE</h1>
</body>
</html>
```

Output:



Home Page:



Contact Page:



3. Write a HTML program to create class time table.

```
<html>
<head>
<style>
    tabel,tr,td,th{border:1px solid black;
        text-align:center;}
</style>
</head>
<body>
<h1><pre>    Department of BCA</pre></h1>

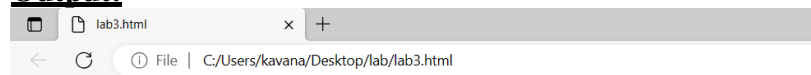
<table border="1">
<caption> 4th Sem class Time Table</caption>
<tr>
    <th> Day/Time</th>
    <th> 8:30-9:30</th>
    <th> 9:30-9:40</th>
    <th> 9:40-10:30</th>
    <th> 10:30-11:30</th>
</tr>
<tr>
    <td>Monday</td>
    <td>OS</td>
    <td rowspan="6">Break</td>
    <td>MM</td>
    <td>Python</td>
</tr>
<tr>
    <td>Tuesday</td>
    <td>Python</td>
    <td>OS</td>
    <td>MM</td>
```

```

</tr>
<tr>
  <td>Wednesday</td>
  <td>OS</td>
  <td>MM</td>
  <td>Python</td>
</tr>
<tr>
  <td>Thursday</td>
  <td>MM</td>
  <td>Python</td>
  <td>OS</td>
</tr>
<tr align="center">
  <td>Friday</td>
  <td>Kan</td>
  <td>MM</td>
  <td>OS</td>
</tr>
<tr>
  <td>Saturday</td>
  <td>Eng</td>
  <td>ED</td>
  <td>Python</td>
</tr>
</table>
</body>
</html>

```

Output:



Department of BCA

4th Sem class Time Table

Day/Time	8:30-9:30	9:30-9:40	9:40-10:30	10:30-11:30
Monday	OS	Break	MM	Python
Tuesday	Python		OS	MM
Wednesday	OS		MM	Python
Thursday	MM		Python	OS
Friday	Kan		MM	OS
Saturday	Eng		ED	Python

4. Write an HTML code to create a frameset having header, navigation and content section.

Lab4.html

```
<HTML>
<frameset rows="30%,70%">
  <frame src="header.html">

  <frameset cols="20%,*">
    <frame src="menu.html" name="menu">
    <frame src="main.html" name="main">
  </frameset>

</frameset>
</html>
```

header.html

```
<html>
<head>
<style>
  header{ text-align:center; color:purple;font-size:35;}
</style>
</head>
<body>
  <header>
    <h4>VIDYAVAHINI GROUP OF INSTITUTIONS</h4>
    <h1>VIDYAVAHINI FIRST GRADE COLLEGE</h1>
  </header>
</body>
</html>
```

menu.html

```
<html>
<body align="center">
<font size="6">
<br>
  <a href="main.html" target="main"> HOME </a><br><br><br>
  <a href="about.html" target="main"> ABOUT US</a><br><br><br>
</font>
</body>
</html>
```

main.html

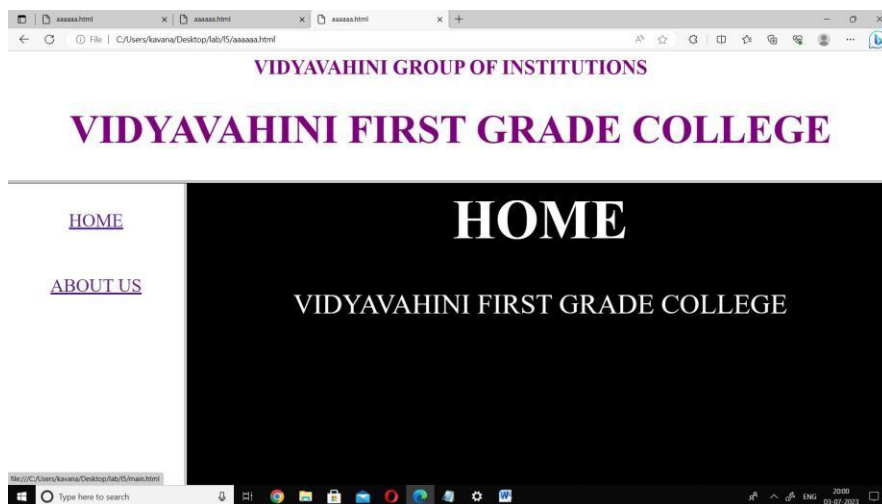
```
<html>
<body bgcolor="black" align="center">
<font size="9" color="white">
<h1> HOME</h1>
<p>VIDYAVAHINI FIRST GRADE COLLEGE</p>
```

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

about.html

```
<html>
<body bgcolor="black" align="center">
<font size="9" color="white">
<h1> ABOUT US</h1>
<p>Our College provides a supportive learning environment in which students can
achive their personal,educational and career goals.</p>
</font>
</body>
</html>
```

Output:



5. Write a HTML program to create student registration form on submitting the form check whether fields are empty or not using java script. If any fields are empty, display an error message.

```
<html>
<head>
<title>Student Registration Form</title>
<script>
function validateForm()
{
var firstName = document.forms["registrationForm"]["firstName"].value;
var lastName = document.forms["registrationForm"]["lastName"].value;
var email = document.forms["registrationForm"]["email"].value;
var dob = document.forms["registrationForm"]["dob"].value;
```

```

if (firstName == "" || lastName == "" || email == "" || dob == "")
{
    alert("Please fill in all fields!");
}
}
</script>
</head>
<body>
<h1>Student Registration Form</h1>
<form name="registrationForm" onsubmit="validateForm()">
    <label>First Name:</label>
    <input type="text" name="firstName"><br><br>
    <label>Last Name:</label>
    <input type="text" name="lastName"><br><br>
    <label>Email:</label>
    <input type="email" name="email"><br><br>
    <label>Date of Birth:</label>
    <input type="date" name="dob"><br><br>
    <input type="submit" value="Submit">
</form>
</body>
</html>

```

Output:



The screenshot shows a web browser window with the title "Student Registration Form". The address bar shows the file path "C:/Users/kavana/Desktop/qqq.html?firstName=&lastName=.%2Cmu". The form is titled "Student Registration Form" and contains the following fields:

- First Name:
- Last Name:
- Email:
- Date of Birth:
- Submit:

6. Write an HTML program to create bio-data and to change the following css properties. *Font *Text *Background.

```

<!DOCTYPE html>
<html>
<head>
<style>
div{
    border:6px solid black;
    width:350;
}
h3{background-color:grey; font-size:30px;}
p{font-size:20px;}
h1{color:red;}
h2{font-size:35px;}

```

```

    li{font-size:20px;}
</style>
</head>

<body>
<div>
    <h1 align="center">BIO DATA</h1>

    <h2>Adharsh</h2>
    <p>Adharsh is a software engineer working in ABC company.</p>

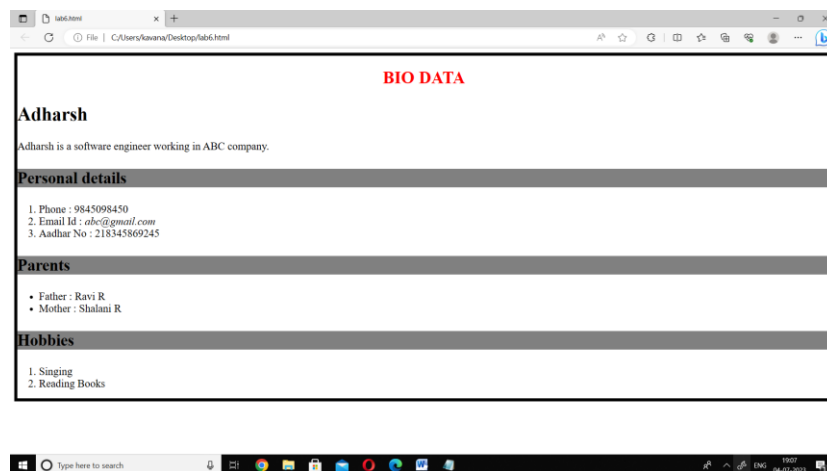
    <h3>Personal details</h3>
    <ol>
        <li>Phone : 9845098450</li>
        <li>Email Id : <i>abc@gmail.com</i></li>
        <li>Aadhar No : 218345869245</li>
    </ol>

    <h3>Parents</h3>
    <ul>
        <li>Father : Ravi R </li>
        <li>Mother : Shalani R</li>
    </ul>

    <h3>Hobbies</h3>
    <ol>
        <li>Singing</li>
        <li>Reading Books</li>
    </ol>
</div>
</body>
</html>

```

Output:



**7. Write an HTML program to create div and apply the following css. *Margin
*Padding *Border *Box Shadow.**

```
<html>
<head>
<style>
  div{border:6px solid red;
      padding:10px;
      width:450;
      margin:10px;
      box-shadow:20px 20px 20px black;
      }
</style>
</head>
<body>
<div>
  <h1> Vidyavahini Degree College</h1>
</div>
</body>
</html>
```

Output:



8. Write an HTML program to create a box and using css transform and transition properties move the box to center of the web page on loading page.

```
<!DOCTYPE html>
<html>
<head>
  <title>CMA-Program-8</title>
<style>

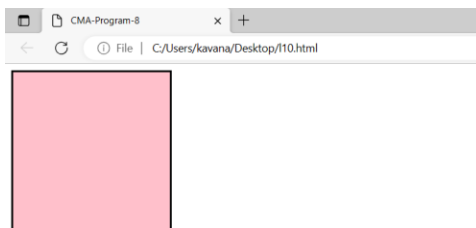
.box {
  height: 200px;
  width: 200px;
  border: 3px solid;
  background-color: pink;
  transition-property: transform;
  transition-duration: 5s;
}
```

```

    }
    .move {
        transform: translateX(315%) translateY(115%);
    }
</style>
</head>
<body>
    <div class="box"></div>
    <script>
        setTimeout(() => {
            document.querySelector('div').classList.add('move');
        }, 1000);
    </script>
</body>
</html>

```

Output:



9. Write an HTML program to create a circle and create an animation of bouncing of the circle for 10 sec.

```

<html>
<head>
<style>
    .circle {
        width: 100px;
        height: 100px;
        border-radius: 50%;
        background-color: red;
        position: relative;
        animation-name: bounce;
        animation-duration: 10s;
        animation-iteration-count: infinite;
    }

```

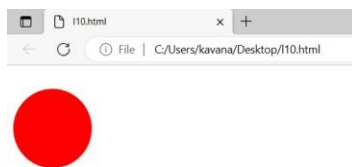
```

@keyframes bounce {
    0% { top: 0; }
    50% { top: 350px; }
    100% { top: 0; }
}

</style>
</head>
<body>
    <div class="circle"></div>
</body>
</html>

```

Output:



10. Write an HTML program to create page loading animations

```

<html>
<head>
<style>

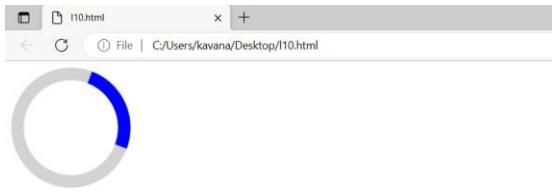
@keyframes spin {
    to{ transform: rotate(360deg); }
}

.load {
    width: 120px;
    height: 120px;
    border: 16px solid lightgrey;
    border-top: 16px solid blue;
    border-radius: 50%;
    animation-name: spin;
    animation-duration: 2s;
    animation-timing-function: linear;
    animation-iteration-count: infinite;
}
</style>
</head>
<body>
    <div class="load"></div>
</body>
</html>

```

.

Output:



Computer Multimedia and Animation lab

Part-B

1. Write an HTML program to draw line, polyline and rectangle and fill rectangle with red color using SVG tag.

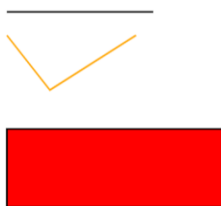
```
<!DOCTYPE html>
<html>
<head>
<title>SVG </title>
</head>
<body>
<svg width="400" height="400">

    <line x1="50" y1="50" x2="220" y2="50" stroke="black" stroke-width="2" />

    <polyline points="50,80 100,150 200,80" stroke="orange" fill="none" stroke-
width="2" />

    <rect x="50" y="200" width="250" height="100" stroke="black" stroke-width="2"
fill="red"/>
</svg>
</body>
</html>
```

Output:



2. Write an HTML program to draw star and multiple circle and with different color using SVG tag.

```
<!DOCTYPE html>
<html>
<head>
<title>SVG</title>
</head>
<body>
<svg width="400" height="400">

  <polygon points="200,50 225,150 325,150 250,200 275,300 200,250 125,300
  150,200 75,150 175,150" stroke="black" fill="red" />

  <circle cx="50" cy="250" r="50" fill="purple" />
  <circle cx="300" cy="100" r="50" fill="green" />
  <circle cx="350" cy="250" r="50" fill="orange" />
</svg>
</body>
</html>
```

Output:



3. Write an HTML program to create logo with linear gradient properties using SVG tag.

```
<!DOCTYPE html>
<html>
<head>
<title>SVG </title>
</head>
<body>
<svg height="250" width="250">
  <defs>
    <linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="100%">
```

```

        <stop offset="0%" stop-color="yellow" />
        <stop offset="100%" stop-color="green"/>
    </linearGradient>
</defs>
<rect x="50" y="50" width="300" height="300" fill="url(#grad1)" />
<text x="115" y="150">LOGO</text>
</svg>
</body>
</html>

```

Output:



4. Write an HTML program to draw Square and Rectangle using canvas tag and JavaScript.

```

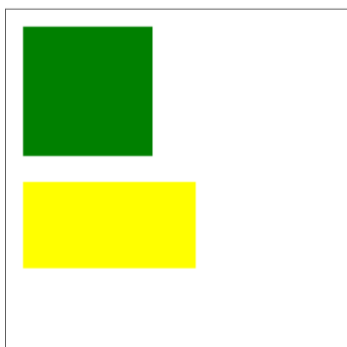
<!DOCTYPE html>
<html>
<body>
    <canvas id="myCanvas" width="400" height="400" style="border: 1px solid
        black;"></canvas>
    <script>
        var canvas = document.getElementById("myCanvas");
        var ctx = canvas.getContext("2d");

        ctx.fillStyle = "green";
        ctx.fillRect(20, 20, 150, 150);

        ctx.fillStyle = "yellow";
        ctx.fillRect(20, 200, 200, 100);
    </script>
</body>
</html>

```

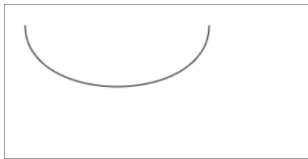
Output:



5. Write an HTML program to draw bezier curve using canvas tag and JavaScript.

```
<!DOCTYPE html>
<html>
<body>
  <canvas id="myCanvas" width="300" height="150" style="border:1px solid
  grey"></canvas>
  <script>
    const c = document.getElementById("myCanvas");
    const ctx = c.getContext("2d");
    ctx.beginPath();
    ctx.moveTo(20, 20);
    ctx.bezierCurveTo(20, 100, 200, 100, 200, 20);
    ctx.stroke();
  </script>
</body>
</html>
```

Output:



6. Write an HTML program to import an external image into a canvas and then to draw on that image.

```
<html>
  <body onload = "drawShape();">
    <canvas id = "mycanvas" width="500" height="400"></canvas>
  <script>
    function drawShape()
    {
      var canvas = document.getElementById('mycanvas');
      var ctx = canvas.getContext('2d');

      var img = new Image();
      img.src = 'canvas.jpg';
      img.onload = function()
      {
        ctx.drawImage(img,10,10,200,200);
        ctx.moveTo(40,40);
        ctx.lineTo(80,80);
        ctx.lineTo(150,80);
      }
    }
  </script>
</body>
</html>
```



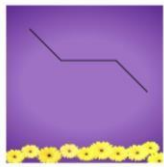
```

        ctx.lineTo(190,120);
        ctx.stroke();
    }
}

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

```

Output:



7. Write an HTML program to draw a rectangle box using canvas and to change background color to red, scale of the rectangle to 2 on move-over (hover) properties.

```

<!DOCTYPE html>
<html>
<body>
  <canvas id="myCanvas" width="200" height="100" style="border: 1px solid
    black;"></canvas>
  <script>

    var canvas = document.getElementById("myCanvas");
    var ctx = canvas.getContext("2d");

    function drawRectangle(color, scale)
    {
      ctx.fillStyle = color;
      ctx.fillRect(0, 0,200,100);
    }

    drawRectangle("blue", 1);

    canvas.addEventListener("mouseover",function()
    {
      drawRectangle("red", 2);
    });
    canvas.addEventListener("mouseout",function()
    {

```

```
    drawRectangle("blue", 1);  
  });  
</script>  
</body>  
</html>
```

Output:



Mouse over

