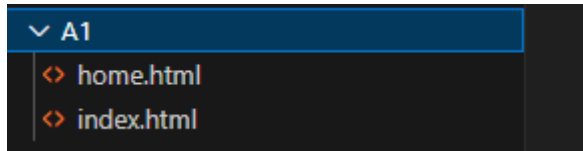# Part-A

1. Write an HTML program to create and display navigations menus using list tags and anchor tag
2. Write an HTML program to display multi-media data (text, images, audios, videos, gifs, etc.) on a webpage
3. Write an HTML program to create student Registrations form on submitting the form check whether fields are empty or not using JavaScript. If any fields are empty display an error message
4. Write an HTML program to create biodata (CV or Resume) and to change the following CSS-properties ● Font ● Text ● Background
5. Write an HTML program to create div and apply the following CSS properties on created div ● Margin ● Padding ● Border ● Box shadow
6. Write an HTML program to create a box and using CSS transform and transition properties move the box to the center of the web page on loading webpage
7. Write an HTML program to create a circle and create an animation of bouncing of the circle for10 sec
8. Write an HTML program to create page loading animations,

Part-B

1. Write an HTML program to draw line, polyline and rectangle and fill rectangle with red color using svg tag.
2. A) Write an HTML program to draw star and multiple circle and with different color using svg tag.
   B) Write an HTML program to create logo with linear gradient properties using svg tag.
3. Write an HTML program to draw Square and Rectangle using canvas tag and JavaScript
4. Write an HTML program to draw Bezier curve using canvas tag and JavaScript
5. ~~Write an HTML Program to import an external image into a canvas and then to draw on that image~~
6. 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.
7. ~~Write an html program to draw a circle using canvas and to apply the rotations animations on loading the page~~

Part-A

1. **Write an HTML program to create and display navigations menus using list tags and anchor tag**

In Same Folder

Index.html

```
A1 > <> index.html > @ html
1   <!DOCTYPE html>
2   <html >
3   <head>
4
5       <title>Navigation Menu</title>
6   </head>
7   <body>
8       <h1>Navigation Menu</h1>
9       <ul>
10          <li><a href="home.html"> Home</a></li>
11          <li><a href="About.html">About</a></li>
12          <li><a href="Contact.html">Contact</a></li>
13          <li><a href="faq.html">FAQ</a></li>
14      </ul>
15  </body>
16  </html>
```

Home.html

```
A1 > <> home.html > @ html
1   <html>
2   <h1 style="text-align: center;">Seshadripuram Degree College</h1>
3   <h2>courses offered</h2>
4   <ol>
5   <li>BCA</LI>
6   <li>B.Com</LI>
7   <li>M.com</LI>
8   </OL>
9   </html>
```

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Output :

Navigation Menu

- [Home](#)
- [About](#)
- [Contact](#)
- [FAQ](#)

When you click on Home then next output ----→

Seshadripuram Degree College

courses offered

1. BCA
2. B.Com
3. M.com

2.Write an HTML program to display multi-media data (text, images, audios, videos, gifs, etc.) on a webpage

```
<> A2.html > ⊘ html > ⊘ body
1   <!DOCTYPE html>
2 ∨ <html>
3 ∨ <head>
4       <title>Seshadripuram Degree College</title>
5   </head>
6 ∨ <body>
7 ∨     <center>
8           <h1>Seshadripuram Degree College</h1>
9           <hr color="red">
10          <img src="college.jpeg" alt="IMG">
11      </center>
12
13          <h2> <u>HTML :</u></h2>
14          <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe pariatur commodi nesciunt debitis maxime quo minus consequatur
            molestias! Error sit perferendis esse. Maxime dolor ex deleniti ad amet expedita vitae</p>
15
16          <audio controls src="audio.mp3"></audio>
17
18          <video controls src="location of vedio"></video>
19          <!-- OR -->
20
21          <iframe width="560" height="315" src="https://www.youtube.com/embed/n5LB0_iA7qM?si=ywZKw7csRqTv_Zy_" title="YouTube video player"
            frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share"
            referrerpolicy="strict-origin-when-cross-origin" allowfullscreen></iframe>
22
23
24  </body>
25  </html>
```

Output :

Seshadripuram Degree College

HTML :

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe pariatur commodi nesciunt debitis maxime quo minus consequatur molestias! Error sit perferendis esse. Maxime dolor ex deleniti ad amet expedita vitae

3.Write an HTML program to create student Registrations form on submitting the form check whether fields are empty or not using JavaScript. If any fields are empty display an error message

```html
1   <!DOCTYPE html>
2   <html >
3   <head>
4       <title>Student Registration Form</title>
5   </head>
6   <body>
7       <center>
8           <h1>Student Registration Form</h1>
9       </center>
10      <form onsubmit="return check()">
11          <label for="name">Name</label>
12          <input type="text" id="name" placeholder="Enter your name" >
13          <br><br>
14          <label for="gender">Gender :</label>
15          <input type="radio" id="g1" value="Male"> Male
16          <input type="radio" id="g2" value="Female"> Female
17          <br><br>
18          <label for="address">address</label>
19          <textarea name="address" id="address" placeholder="Enter Your Address"></textarea>
20          <br><br>
21          <label for="dob">DOB :</label>
22          <input type="date" id="dob" placeholder="Enter your DOB" >
23          <br><br>
24          <label for="religion">Religion :</label>
25          <input type="radio" id="r1" value="Hindu"> Hindu
26          <input type="radio" id="r2" value="Muslim"> Muslim
27          <input type="radio" id="r3" value="Christian"> Christian
28          <br><br>
29          <label for="number"> Phone Number</label>
30          <input type="text" id="number" placeholder="Enter your number" >
31          <br><br>
32          <label for="email">Email</label>
33          <input type="email" id="email" placeholder="Enter your email" >
34          <br><br>
35          <input type="submit" value="Submit">
36          <input type="reset" value="Reset">
37      </form>
38  </body>
```

```
39   <script>
40       function check(){
41           var name = document.getElementById("name").value;
42           var gender = document.getElementById("g1").checked;
43           var gender = document.getElementById("g2").checked;
44           var address = document.getElementById("address").value;
45           var dob = document.getElementById("dob").value;
46           var religion = document.getElementById("r1").checked;
47           var religion = document.getElementById("r2").checked;
48           var religion = document.getElementById("r3").checked;
49           var number = document.getElementById("number").value;
50           var email = document.getElementById("email").value;
51
52           if(name == ""){
53               alert("Please enter your name");
54           }
55           if(!g1 || !g2){
56               alert("Please select your gender.");
57               return false;
58           }
59           if(address == ""){
60               alert("Please enter your address");
61           }
62           if(dob == ""){
63               alert("Please enter your DOB");
64           }
65           if(!r1 || !r2 || !r3){
66               alert("Please select your religion.");
67           }
68           if(number == ""){
69               alert("Please enter your number");
70           }
71           if(email == ""){
72               alert("Please enter your email");
73           }
74           alert("Form submitted successfully!");
75       }
76   </script>
77   </html>
```

Output :

Student Registration Form

Name [Enter your name]

Gender : ○ Male ○ Female

address [Enter Your Address]

DOB : [mm/dd/yyyy 🗓]

Religion : ○ Hindu ○ Muslim ○ Christian

Phone Number [Enter your number]

Email [Enter your email]

[Submit] [Reset]

4. Write an HTML program to create biodata (CV or Resume) and to change the following CSSproperties
● **Font**
● **Text**
● **Background**

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <style>
5           body{
6               background-color: rgb(126, 235, 84);
7           }
8           .haeder {
9               background-color: rgb(33, 163, 214);
10              height: 20px;
11              padding: 5px;
12              color: white;
13              font-weight: bold;
14          }
15          table {
16              border: 0px solid black;
17              width: 100%;
18              margin-bottom: 20px;
19          }
20          tr, td {
21              border: 1px solid black;
22              padding: 8px;
23          }
24      </style>
25  </head>
```

```html
<body>
    <center>
        <h1>My Resume | CV</h1>
        <hr color="red">
        <div class="haeder">Personal Information</div>
        <table>
            <tr>
                <td>Name:</td>
                <td>Arshad Pasha</td>
            </tr>
            <tr>
                <td>Age:</td>
                <td>194</td>
            </tr>
        </table>
        <div class="haeder">Skills</div>
        <table>
            <tr>
                <td><b>Degree</b></td>
                <td><b>Institution</b></td>
            </tr>
            <tr>
                <td>BCA</td>
                <td>Seshadripuram Degree College, Mysore</td>
            </tr>
        </table>
        <div class="haeder">Skills</div>
        <table>
            <tr>
                <td>Operating System</td>
                <td>Microsoft Windows 11</td>
            </tr>
            <tr>
                <td>Programming Languages</td>
                <td>C, C++, Java</td>
            </tr>
        </table>
    </center>
</body>
</html>
```

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Output :

My Resume | CV	
Personal Information	
Name:	Arshad Pasha
Age:	194
Skills	
Degree	**Institution**
BCA	Seshadripuram Degree College, Mysore
Skills	
Operating System	Microsoft Windows 11
Programming Languages	C, C++, Java

5. Write anHTML program to create div and apply the following CSS properties om created div *Margin *Padding *Border *Box shadow

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>Shadow BOX</title>
5   </head>
6   <style>
7       #box{
8           height: 100px;
9           width: 700px;
10          background-color: rgb(236, 233, 63);
11          text-align: center;
12          margin: auto;
13          padding: 30px;
14          margin-top: 200px;
15          box-shadow:30px 30px 10px grey;
16          border-radius: 20px;
17      }
18  </style>
19  <body>
20      <center>
21          <h1>CSS Properties</h1>
22          <hr>
23          <div id="box">
24              <h1>Seshadripuramm Degree Colloge </h1>
25          </div>
26      </center>
27  </body>
28  </html>
```

9

Output :

<div align="center">

CSS Properties

</div>

Seshadripuramm Degree Colloge

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

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <style>
5           #box {
6           width: 100px;
7           height: 100px;
8           background: rgb(4, 191, 248);
9           transition: width 3s, height 3s, transform 3s;
10          }
11      </style>
12      <title>Box Moveing</title>
13  </head>
14  <body onload="move()">
15      <center>
16          <h1>Seshadripuram Degree College,Mysore</h1>
17          <hr>
18      </center>
19      <div id="box"></div>
20  </body>
21  <script>
22      function move()
23      {
24          box = document.getElementById('box');
25          box.style.transform="translate(500px,50px)";
26          box.style.width="400px";
27          box.style.height="200px";
28      }
29  </script>
30  </html>
```

Output :

Seshadripuram Degree College,Mysore

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

```
1    <!DOCTYPE html>
2  ∨ <html">
3  ∨ <head>
4        <title>Cricle Moveing</title>
5    </head>
6  ∨ <style>
7  ∨     #c{
8            background-color: ■red;
9            width: 100px;
10           height: 100px;
11           border-radius: 50%;
12           position: relative;
13           animation: move 2s linear infinite alternate-reverse;
14       }
15 ∨     @keyframes move{
16 ∨         from{
17               top: 0px;
18           }
19 ∨         to{
20               top: 300px;
21           }
22       }
23   </style>
24 ∨ <body>
25       <div id="c"></div>
26   </body>
27   </html>
```
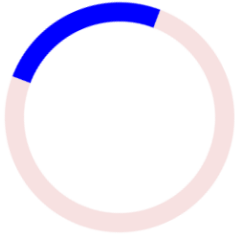
Output :

8 . Write an HTML program to create page loading animations.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Loading Animation</title>
</head>
<style>
    #load{
        height: 200px;
        width: 200px;
        border-radius: 50%;
        border: 20px solid rgb(247, 225, 225);
        border-top: 20px solid blue;
        animation: spin 1s linear infinite;
    }
    @keyframes spin {
        0%{
            transform: rotate(0deg);
        }
        100%{
            transform: rotate(360deg);
        }
    }
</style>
<body>
    <div id="load"></div>
</body>
</html>
```

Output :

Part B

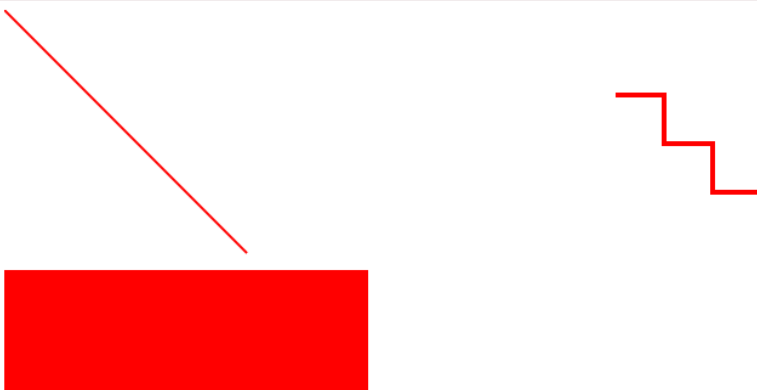1. **Write an HTML program to draw line, polyline and rectangle and fill rectangle with red color using svg tag**

```html
1  <html>
2   <body>
3       <body>
4       <svg height="210" width="500">
5           <line x1="0" y1="0" x2="200" y2="200" style="stroke:rgb(255,0,0); stroke-width:2" />
6       </svg>
7       <svg height="180" width="500">
8           <polyline points="0,40 40,40 40,80 80,80 80,120 120,120 120,160" style="fill:rgb(255, 255, 255);
            stroke:red;stroke-width:4" />
9       </svg>
10      <svg width="400" height="110">
11          <rect width="300" height="100" style="fill:rgb(255,0,0);stroke-width:3;" />
12      </svg>
13  </body>
14
15  </html>
```
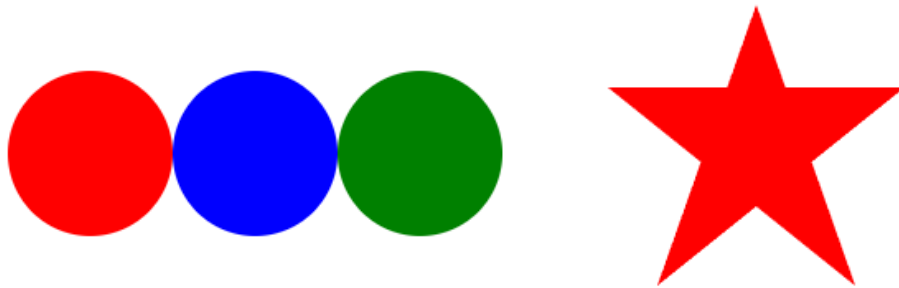
Output :

2. **A) Write an HTML program to draw star and multiple circle and with different color using svg tag.**

```
1   <html>
2   <body>
3   <svg width="400" height="200">
4   <circle cx="100" cy="100" r="50" fill="red" />
5   <circle cx="200" cy="100" r="50" fill="blue" />
6   <circle cx="300" cy="100" r="50" fill="green" />
7   </svg>
8   <svg height = "200" xmlns= "http://www.w3.org/2000/svg">
9   <polygon points = "100,10 40,180 190,60 10,60 160,180" fill = "red"/>
10  </svg>
11  </body>
12  </html>
```

Output :

2. B) Write an HTML program to create logo with linear gradient properties using svg tag.

```
1    <html>
2    <body>
3        <svg height="500" width="700">
4            <defs>
5                <linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="0%">
6                    <stop offset="0%" style="stop-color:█yellow; " />
7                    <stop offset="100%" style="stop-color:█red;  " />
8                </linearGradient>
9            </defs>
10           <ellipse cx="100" cy="70" rx="85" ry="55" fill="url(#grad1)" />
11           <text fill="black" font-size="45" x="50" y="86">SDC </text>
12       </svg>
13   </body>
```

Output :

3.Write an HTML program to draw square and rectangle using canvas tag and javascript.

```
1    <!DOCTYPE html>
2    <html>
3    <body>
4        <h1>Rectangle and Square</h1>
5        <canvas id="rectangleCanvas" width="200" height="100">
6        </canvas>
7        <canvas id="squareCanvas" width="200" height="100">
8        </canvas>
9
10       <script>
11           // Draw Rectangle
12           var c1 = document.getElementById("rectangleCanvas");
13           var ctx1 = c1.getContext("2d");
14           ctx1.fillStyle = "red";
15           ctx1.fillRect(0, 0, 180, 80);
16
17           // Draw Square
18           var c2 = document.getElementById("squareCanvas");
19           var ctx2 = c2.getContext("2d");
20           ctx2.fillStyle = "red";
21           ctx2.fillRect(0, 0, 80, 80);
22       </script>
23   </body>
24   </html>
```

Output :

Rectangle and Square

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

```html
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bezier Curve</title>
</head>
<body>
    <canvas id="myCanvas" width="500" height="300" ></canvas>
    <script>
        var canvas = document.getElementById("myCanvas");
        var ctx = canvas.getContext("2d");
        ctx.beginPath();
        ctx.moveTo(50, 200);
        ctx.bezierCurveTo(150, 50, 350, 50, 450, 200);
        ctx.stroke();
    </script>
</body>
</html>
```
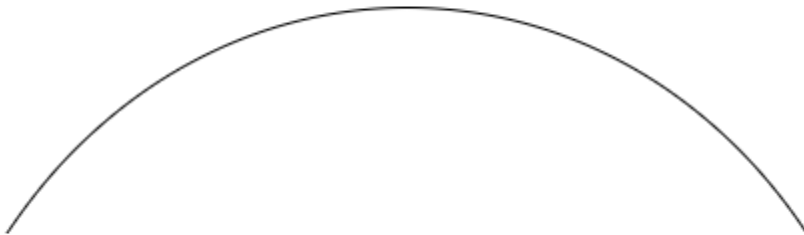
Output :

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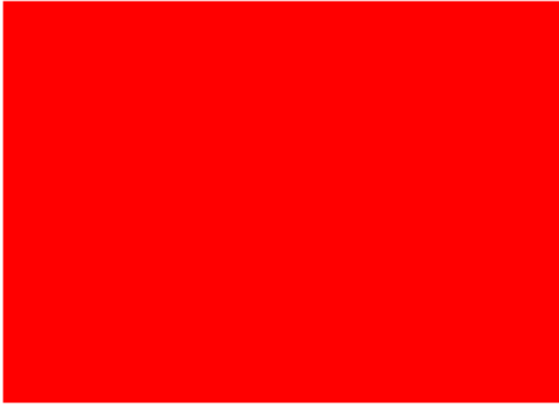**6.html program to draw rectangle using canvas and change background to red and change scale of rectangle to 2 on hover on rectangle.**

```html
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <script>
5            function drawRectangle() {
6                var c = document.getElementById("myCanvas");
7                var ctx = c.getContext("2d");
8                ctx.fillStyle = "black";
9                ctx.fillRect(20, 20, 150, 100);
10               c.addEventListener('mouseover', onMouseOver);
11           }
12           function onMouseOver() {
13               var c = document.getElementById("myCanvas");
14               var ctx = c.getContext("2d");
15               ctx.fillStyle = "red";
16               ctx.fillRect(20, 20, 300, 200);
17           }
18       </script>
19   </head>
20   <body onload="drawRectangle()">
21       <canvas id="myCanvas" width="300" height="300">
22       </canvas>
23   </body>
24   </html>
```

Output :

If put mouse at box it will change …-→

GitHub Link For All Code View :

https://github.com/pashaarshad/MM-2BCA-4sem-Lab-Programmes

Download All Files with Full Code with img,audio Link in Zip 🥶 :

https://github.com/pashaarshad/MM-2BCA-4sem-Lab-Programmes/archive/refs/heads/main.zip

ALL THE BEST FRIENDS 😊