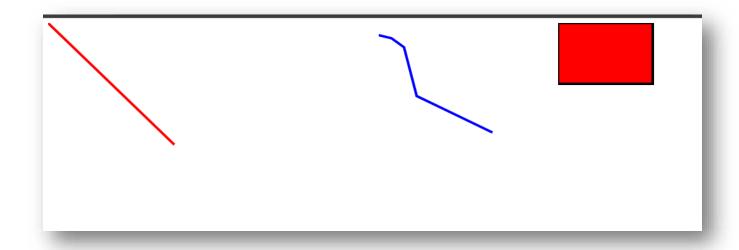
CMA PART-B

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

```
<html>
 <body>
     <svg height="210" width="500">
          x1="0" y1="0" x2="200" y2="200" style="stroke:red; stroke-
     width:4"/>
</svg>
     <svg height="210" width="300">
          <polyline points="20,20 40,25 60,40 80,120 120,140 200,180"</pre>
          style="fill:none;stroke:blue;stroke-width:4"/>
</svg>
     <svg height="210" width="300">
          <rect height="100" width="150"
           style="fill:red;stroke-width:4;stroke:black"/>
</svg>
 </body>
</html>
```

OUTPUT:



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

<circle cx="50%" cy="50%" r="20%" fill="none" stroke="blue"/>
<circle cx="50%" cy="50%" r="25%" fill="none" stroke="yellow"/>
<circle cx="50%" cy="50%" r="30%" fill="none" stroke="black"/>
<circle cx="50%" cy="50%" r="35%" fill="none" stroke="pink"/>
<circle cx="50%" cy="50%" r="40%" fill="none" stroke="orange"/>
<circle cx="50%" cy="50%" r="45%" fill="none" stroke="grey"/>

</svg>
</body>
</html>

OUTPUT::



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

```
<html>
 <body>
    <svg height="150" width="400">
         <defs>
              x1="0%" y1="0%" x2="100%" y2="0%">
              <stop offset="0%" style="stop-color:#ff0;stop-opacity:1"/>
              <stop offset="100%" style="stop-color:#f00;stop-
              opacity:1"/>
</linearGradient>
</defs>
         <ellipse cx="200" cy="70" rx="85" ry="55" fill="url(#LG)"/>
         <text fill="white" font-size="45" x="150" y="86">SVG</text>
</svg>
 </body>
</html>
OUTPUT::
```



4. Write a program to draw Square and rectangle using canvas tag and JavaScript.

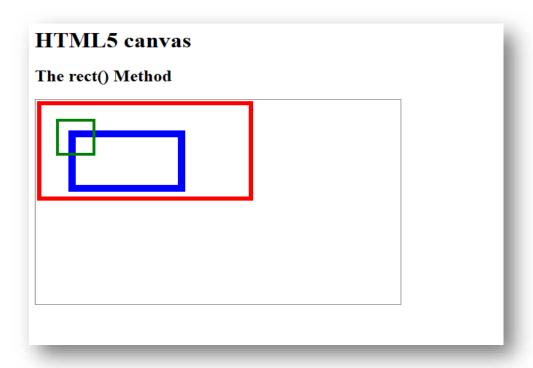
```
<html>
<body>
<h1>HTML5 canvas</h1>
<h2>The rect() Method</h2>

<canvas height="300" width="500" id="MyCanvas" style="border:1px solid grey;">
</canvas>

<script>

var c = document.getElementById("MyCanvas");
var ctx = c.getContext("2d");
```

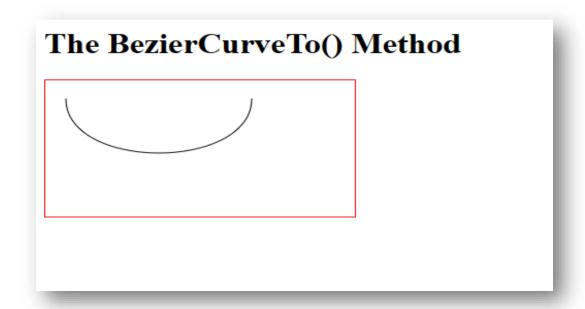
```
ctx.beginPath();
           ctx.lineWidth = "6";
           ctx.strokeStyle = "red";
           ctx.rect(5,5,290,140);
           ctx.stroke();
           ctx.beginPath();
           ctx.lineWidth = "10";
           ctx.strokeStyle = "blue";
           ctx.rect(50,50,150,80);
           ctx.stroke();
           ctx.beginPath();
           ctx.lineWidth = "4";
           ctx.strokeStyle = "green";
           ctx.rect(30,30,50,50);
           ctx.stroke();
     </script>
 </body>
</html>
OUTPUT:
```



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

```
<html>
<body>
     <h1> The BezierCurveTo() Method</h1>
          <canvas id="MyCanvas" width="300" height="150" style="border:1px</pre>
     solid red">
</canvas>
     <script>
          const c = document.getElementById("MyCanvas");
          const ctx = c.getContext("2d");
                                      Onyx
                                                                              7
```

OUTPUT:



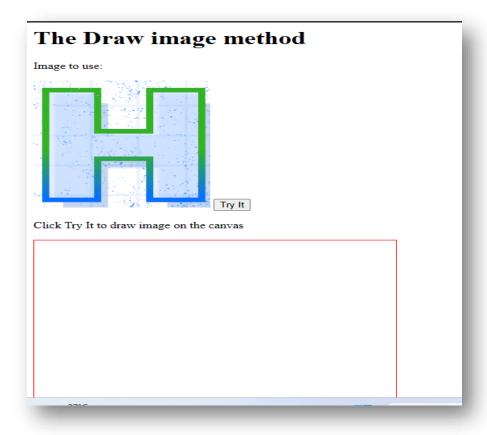
6. Write an HTML program to draw an image in the canvas by using a button.

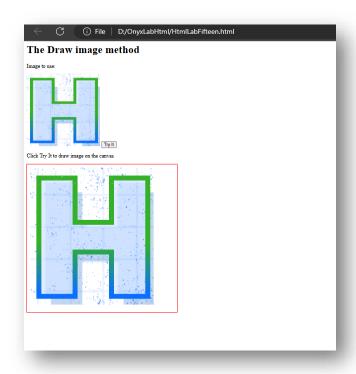
<html>

```
<h1> The Draw image method</h1>
Image to use:
<img id="img" src="D:\OnyxLabHtml\NewHtmllmage.png" alt="The
           Scream" width="220" height="220">
<button onclick="draw()">Try It</button>
Click Try It to draw image on the canvas
<canvas id="MyCanvas" width="450" height="450" style="border:1px solid</pre>
red;"/>
</canvas>
     <script>
         function draw()
         {
               const c = document.getElementById("MyCanvas");
               const ctx = c.getContext("2d");
               const img = document.getElementById("img");
               ctx.drawImage(img,10,10);
          }
     </script>
 </body>
```

</html>

OUTPUT ::





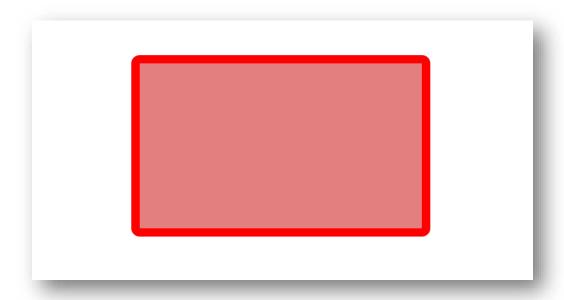
7. Write an HTML program to draw a rectangle box using canvas and to change background-color to red, scale of the rectangle to 2 on mouse over (hover) property.

```
<html>
<html>
<head>
<style>
body{
display:flex;
justify-content:center;
align-items:center;
}
canvas{
```

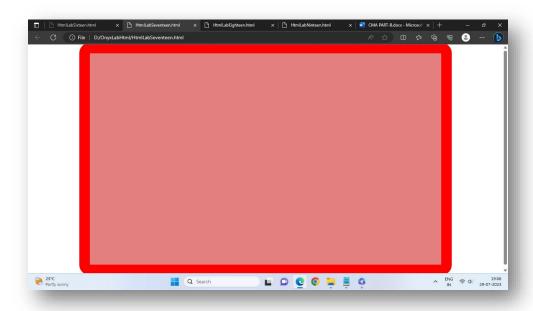
```
border:15px solid red;
               border-radius:15px;
               background-color:rgb(200,0,0,0.5);
               transition:all 1s;
          }
          canvas:hover{
               transform:scale(2);
          }
     </style>
 </head>
 <body>
     <canvas id="MyCanvas" width="500" height="300" ></canvas>
     <script>
          var c document.getElementById("MyCanvas");
          var ctx = c.getContext("2d");
          ctx.fillStyle = "White";
          ctx.fillRect(50,50,100,100);
     </script>
 </body>
</html>
```

OUTPUT::

Before:



After:



8. Write an HTML program to draw a circle using canvas and to apply the rotation animation on loading the page.

<html>

```
<head>
    <style>
         canvas{
               animation: circle-rotate 5s linear infinite;
         }
         @keyframes circle-rotate{
               from{transform:rotate(0deg);}
               to{transform:rotate(360deg);}
         }
    </style>
</head>
<body>
    <canvas height="300" width="500" id="MyCanvas">
    </canvas>
    <script>
         var c = document.getElementById("MyCanvas");
         var ctx = c.getContext("2d");
         var centerX = c.width / 2;
         var centerY = c.height / 2;
         var radius = 50;
         ctx.beginPath();
         ctx.arc(centerX, centerY, radius, 0, 2*Math.PI,false);
```

```
ctx.strokeStyle = "blue";
ctx.lineWidth =5;
ctx.stroke();
</script>
</body>
</html>
```

OUTPUT::

