# PART-A

## A7. Create the following drawing using SVG

```
<!DOCTYPE html>
<html>
<head>
 <title>SVG Lion</title>
</head>
<body>
 <svg height="800" width="960" xmlns="http://www.w3.org/2000/svg">
   <path d="M 150 80 Q 235 30 290 80" stroke="black" fill="orange" />
  <g id="fur">
 <path d="M 120 100 Q 100 70 150 80" stroke="black" fill="orange"/>
   <path d="M 120 100 Q 60 150 120 150" stroke="black" fill="orange" />
   <path d="M 120 150 Q 60 200 120 200" stroke="black" fill="orange" />
   <path d="M 120 200
            Q 60 270 120 270
            Q 140 320 180 300
            Q 160 340 220 335
            " stroke="black" fill="orange" />
  </g>
  <use xlink:href="#fur" transform="translate(440,0) scale(-1,1)" />
  <rect x="120" y="80" width="200" height="150" fill="orange"></rect>
  <polygon points="130,230 220,335 300,230" fill="orange" />
  <g id="ear">
```

```
    <ellipse cx="163" cy="120" rx="22" ry="25" stroke="black" fill="yellow" transform="rotate(-35,163,120)" />
    <circle cx="165" cy="123" r="15" stroke="black" fill="hotpink" />
  </g>
  <use xlink:href="#ear" transform="translate(440,0) scale(-1,1)" />
  <g id="face">
   <path d="M 165 135 Q 90 245 190 275" stroke="black" fill="yellow" />
  </g>
  <use xlink:href="#face" transform="translate(440,0) scale(-1,1)" />
  <polygon points="165,135 275, 135 250,275 190,275" fill="yellow" />
  <path d="M 165 135 Q 235 70 275 135" stroke="black" fill="yellow" />
  <path d="M 190 275 Q 225 290 250 275" stroke="black" fill="yellow" />
  <g id="eye">
    <path d="M 178 148 Q 190 130 203 148" stroke="black" fill="transparent" />
    <ellipse cx="192" cy="167" rx="9" ry="13" stroke="black" fill="white" />
    <ellipse cx="192" cy="170" rx="8" ry="10" />
  </g>
  <use xlink:href="#eye" transform="translate(50,0)" />
  <ellipse cx="217" cy="227" rx="10" ry="15" fill="black" />
  <circle cx="195" cy="220" r="22" fill="hotpink" />
  <circle cx="240" cy="220" r="22" fill="hotpink" />
  <ellipse cx="217" cy="200" rx="20" ry="13" fill="black" />
</svg>
</body>
</html>
```

## PART-B-5

**B5)Create a web page using HTML5/CSS3 to animate a truck movement. While truck moves trees should move in the back ground. Output screen shot:**

For tree, truck and wheels download the images from the following URLs.
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/tree.svg
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/truck.svg
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/wheels.svg
Animation must be pure CSS and Java script should not be used.

**HTML CODE**

```
<!DOCTYPE html>
<head>
<title>Speedy Truck</title>
<link rel="stylesheet" href="speedytruck.css">
</head>
<body>
<div class="loop-wrapper">
  <div class="tree"></div>
  <div class="truck"></div>
  <div class="wheels"></div>
</div>
</body>
</html>
```

**CSS CODE(File Name: speedytruck.css)**

```
body {
  background: #009688;
  }
.loop-wrapper {
  margin: 0 auto;
  position: relative;
  width: 600px;
  height: 250px;
  overflow: hidden;
  border-bottom: 3px solid #fff;
  }
.tree{
  position: absolute;
  height: 100px;
  width: 35px;
  bottom: 0;
  background: url(https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/tree.svg) no-repeat;
}
.truck, .wheels {
  width: 85px;
  bottom: 0px;
  right: 50%;
  position: absolute;
  }
.truck {
  background: url(https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/truck.svg) no-repeat;
   height: 60px;
}
.truck:before {
  content: " ";
  position: absolute;
```

```
  width: 25px;
  box-shadow:
    -30px 28px 0 1.5px #fff,
     -35px 18px 0 1.5px #fff;
}
.wheels {
  background: url(https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/wheels.svg) no-repeat;
  height: 15px;
  }
.tree  { animation: tree 3s 0.000s linear infinite; }
@keyframes tree {
  0%   { transform: translate(1350px); }
  50% {}
  100% { transform: translate(-50px); }
}
```

**PART-B-4**

**B4)Create a web page using HTML/CSS which contains cards (shown as a stack of cards) with image of a tourist place and below that is a thumbnail (shown in circle with image). When mouse hovers over thumbnail, corresponding card comes in front and also small description about the tourist place will be displayed. Use ONLY CSS animation and transition. (Java script should not be used to animate.) Initial interface:**

**********

```
<!DOCTYPE html>
<html lang="en">

<head>

    <title>Tourist Places 2</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: #5a89ee;
        }

        .container {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
        }
        .card img {
            width: 100%;
            height: 100%;
            border-radius: 15px;
            object-fit: cover;
        }
```

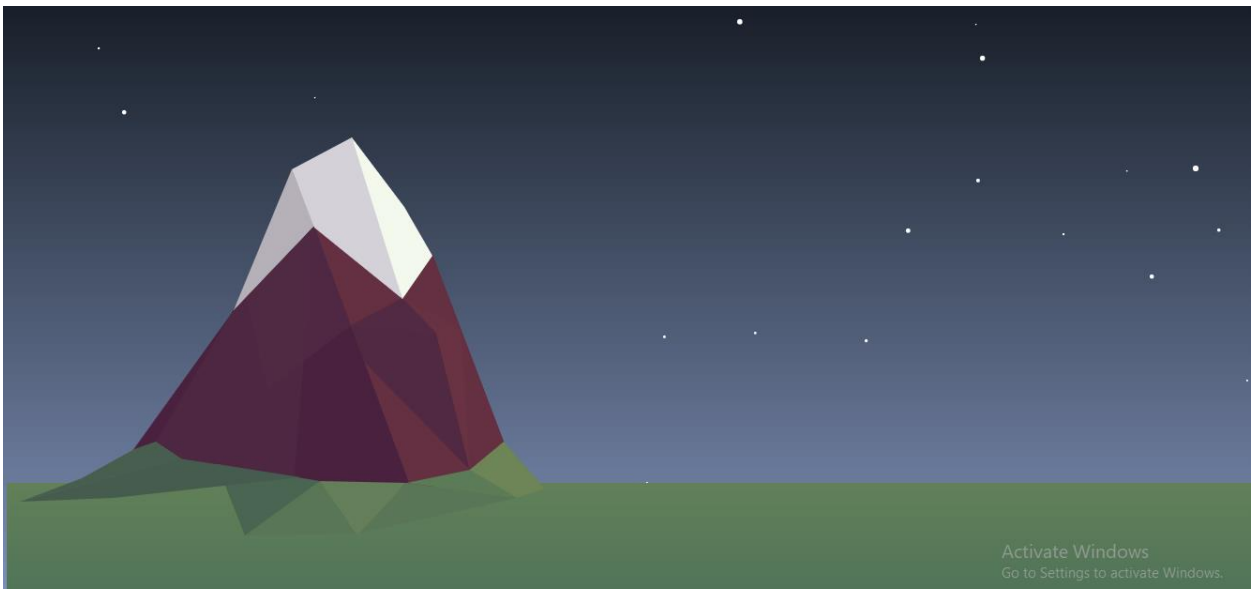
```
.card {
    width: 300px;
    height: 400px;
    background-color: #fff;
    border-radius: 16px;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
    position: relative;
    transition: transform 0.5s, z-index 0s 0.5s;
    /* Add z-index transition */
    margin-right: -100px;
    padding: 2px;
}

.card:hover {
    transform: translateY(-20px);
    box-shadow: 0 10px 20px rgba(0, 0, 0, 0.5);
    z-index: 999;
    /* Higher z-index on hover */
}
/* added code for sharp arrow */
.description::after {
    content: '';
    position: absolute;
   bottom: -10px;
   left: 45%;

    border-style: solid;
    border-width: 14px 10px 0 10px;
    border-color: #ececec transparent transparent transparent;
}

.description {
    height:100px;
    width: 240px;
    text-align: center;
    opacity: 1;
    transition: opacity 0.5s;
    position: absolute;
    z-index: -5;
    bottom: 0;
    left: 20px;
    right: 0;
    background-color: rgb(223, 220, 220);
    color: #020202;
    padding: 10px;
    border-radius: 10px;
}

/* Adjust the opacity transition to match the z-index transition */
.card:hover .description {
    opacity: 3;
    z-index: 999;
```

```
            transition: opacity 0.5s, z-index 0s;
            /* Add z-index transition */
        }

        .thumbnail {
            width: 60px;
            height: 60px;
            border-radius: 50%;
            border: 2px solid #fff;
            overflow: hidden;
            position: absolute;
            bottom: -70px;
            left: 50%;
            transform: translateX(-50%);
            transition: border-color 0.5s;
        }

        .card:hover {
            transform: translateY(-20px);
            box-shadow: 0 10px 20px rgba(0, 0, 0, 0.5);
        }

        .thumbnail:hover {
            border-color: #007bff;
        }

        p {
            color: #007bff;
        }

    </style>
</head>

<body>
    <div class="container">
        <div class="card">
            <img src="AGRA.jpg" alt="AGRA">
            <div class="thumbnail">
                <img src="AGRA.jpg" alt="AGRA">
            </div>
            <div class="description">
                <h3>AGRA</h3>
                <p>
Located on the banks of River Yamuna in Uttar Pradesh
</p>
            </div>
        </div>

        <div class="card">
            <img src="SRINAGAR.jpg" alt="SRINAGAR">
            <div class="thumbnail">
                <img src="SRINAGAR.jpg" alt="SRINAGAR">
```

```
        </div>
        <div class="description">
          <h3>SHRINAGAR</h3>
          <p>Famously known as 'Heaven on Earth, Srinagar</p>
        </div>
      </div>


      <div class="card">
        <img src="LADAKH.jpg" alt="LADAKH">
        <div class="thumbnail">
          <img src="LADAKH.jpg" alt="LADAKH">
        </div>
        <div class="description">
          <h3>LADAKH</h3>
          <p>Ladakh is a union territory in the Kashmir region of India.
</p>
        </div>
      </div>


</body>

</html>
```

## PART-B-8

B.8)Create a web page which must be as shown in below image using HTML5, SVG and CSS3. Here Mountain must be drawn using SVG, Stars in sky changes their position randomly for every time page is loaded (java script can be used). Sky and stars must be created using <canvas> element.




**Note: No Online (live access) CSS files must be used.**

**HTML CODE**

```
<!DOCTYPE html>
<head>
<title> SVG SCENE</title>
<link rel="stylesheet" type="text/css" href="sky.css"/>
<script>
window.onload = function()
{
var sky = document.getElementById("sky");

sky.width = document.body.clientWidth;
sky.height = document.body.clientHeight;

if (sky.getContext){
   var skyContext = sky.getContext("2d");

   var radius = 2;

   for(var star = 0; star < 50; star++){
      var min = ( Math.random() * 30 + 5 ) / 10;
      var max = sky.width - radius;

      var centerX = Math.floor(Math.random() * (max - min + 1)) + min;
```

```
      var centerY = Math.floor(Math.random() * (max - min + 1)) + min;

      skyContext.beginPath();
      skyContext.arc(centerX, centerY, min, 0, 2 * Math.PI);

      skyContext.fillStyle = "rgb(255, 255, 255)";
      skyContext.fill();
    }
}
}
</script>
</head>
<body>
<section class="stage">

  <svg height="390" width="550" id="mountains">
    <polygon points="300,390 190,90 320,130 400,340" fill="#5d2042" />
    <polygon points="0,340 108,190 194,100 201,120 301,390" fill="#320e40" />
    <polygon points="14,348 117,174 194,102 172,377" fill="#3b1642" fill-opacity="0.8" />
    <polygon points="120,174 194,102 233,206 144,275" fill="#3d1744" fill-opacity="0.9" />

    <polygon points="233,206 288,177 324,214" fill="#421943" />
    <polygon points="233,206 324,214 247,245" fill="#3e1743" />
    <polygon points="247,245 324,214 360,360" fill="#411842" />
    <polygon points="324,214 288,177 350,210" fill="#632242" />
    <polygon points="324,214 350,210 360,360" fill="#652343" />

    <g id="apex">
      <polygon points="108,190 170,40 194,100" fill="#aeacb9" />
      <polygon points="170,40 234,6 260,70 288,178 194,102" fill="#ceced8" />
      <polygon points="234,6 290,80 320,132 288,178" fill="#ffffed" />
    </g>
  </svg>
  <svg id="ground"></svg>

  <svg id="hills" width="700" height="170">
    <polygon points="480,70 530,100 560,90 516,40" fill="#9b9d57" />
    <polygon points="480,70 530,100 412,84" fill="#7d8f57" />
    <polygon points="530,100 412,84 360,138" fill="#748857" />
    <polygon points="360,138 240,140 320,82" fill="#748857" />

    <polygon points="412,84 360,140 320,82" fill="#88945a" />
    <polygon points="320,82 240,140 210,64" fill="#597252" />
    <polygon points="300,78 100,100 0,104 170,58" fill="#4f654f" />
    <polygon points="172,58 145,40 122,48 66,79 0,104" fill="#536a50" />
```

```
    </svg>

    <canvas id="sky"></canvas>
  </section>
  </body>
  </html>
```

**CSS CODE file Name: sky.css**

```
html, body {
        height: 100%;
       width: 100%
}
 body {
        min-height: 100%;
        background: linear-gradient(to bottom, #0a1a27, #4e83b7);
        position: relative;
}
body #mountains {
        z-index: 2;
        position: absolute;
        bottom: 20%;
        margin-bottom: -16px;
        left: 10%;
}
 body #ground {
        z-index: 1;
        width: 100%;
        height: 20%;
        position: absolute;
        bottom: 0;
        background: #879759;
        background: linear-gradient(to bottom, #879759, #648459);
}
```

```
 body #hills {
            position: absolute;
             left: 10%;
             margin-left: -120px;
             margin-bottom: -86px;
             bottom: 20%;
             z-index: 3;
}
 body #stars {
             width: 100%;
             height: 100%;
}
```