

LAB 6 - CPS 530

Name: Basim Khan
Student Number: 501202574

In this lab i practiced creating shapes and text using svg. I made two svg images, one that recreates different card suit symbols using shapes and paths, and another that displays my name with an upward red curved line between the first and last name.

Link:

<https://www.cs.torontomu.ca/~b53khan/lab06.html>

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Lab 06</title>
    <style>
        body {
            background-color: #ffffff;
            font-family: Arial, sans-serif;
            text-align: center;
            margin: 40px;
        }
        svg {
            background: white;
            margin: 20px auto;
        }
    </style>
</head>
<body>

    <h1>Lab 06</h1>

    <h2>Problem 1</h2>

    <svg width="500" height="500" viewBox="0 0 500 500">
        <g transform="translate(120,120)">
            <circle cx="0" cy="-40" r="35" fill="#357a38"/>
        </g>
    </svg>

</body>
```

```

<circle cx="-35" cy="0" r="35" fill="#357a38"/>
<circle cx="35" cy="0" r="35" fill="#357a38"/>
<rect x="-5" y="25" width="10" height="40" fill="#357a38"/>
</g>

<polygon points="350,60 410,150 350,240 290,150"
           fill="#0000ff"/>

<g transform="translate(130,360)">
<path d="M0,0
      C0,-40 60,-40 60,10
      C60,60 0,110 0,130
      C0,110 -60,60 -60,10
      C-60,-40 0,-40 0,0z"
           fill="#e53935"/>
</g>

<g transform="translate(360,390)">
<path d="M0,0
      C0,-50 60,-20 0,-120
      C-60,-20 0,-50 0,0z"
           fill="#000000"/>
<rect x="-7" y="0" width="14" height="35" fill="#000000"/>
</g>
</svg>

```

<h2>Problem 2</h2>

```

<svg width="500" height="200">
<text x="60" y="80"
      font-family="Impact, sans-serif"
      font-size="56"
      fill="#0D47A1">
BASIM
</text>

<path d="M40 100 Q250 40 460 100"
      stroke="red" stroke-width="3" fill="none"/>

<text x="150" y="165"
      font-family="Georgia, serif"
      font-size="34"

```

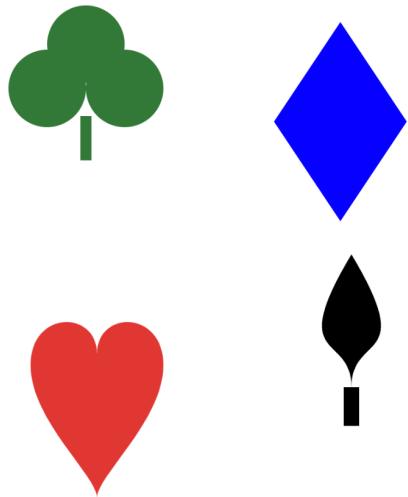
```
    fill="#424242">
  Khan
</text>
</svg>

</body>
</html>
```

Screenshots:

Lab 06

Problem 1



Problem 2

BASIM

A red curved line underneath the word "BASIM".

Khan

Conclusion:

This lab helped me understand how svg actually works and how each shape is positioned using coordinates. It took some trial and error to get the spacing and curves right, especially for the heart and spade symbols. I also had to adjust numbers a few times to make everything line up properly.