**F21DV Lab 2 Report**

# Part 1. CSS Effects/Animations

## Exercise 1.

I struggled to get the dot to pulse properly while on the path of the line graph despite the fact the CSS correctly makes the circle I created outside the SVG pulse. The dots on the line graph seem to move off the axis of the line while increasing/decreasing in size and the colour fill changes to red.

Chart, line chart

Description automatically generatedText

Description automatically generatedCSS: Result:

## Exercise 2.

For this exercise I created an array of shapes that can be added to the SVG when the user clicks the corresponding button. Initially I bind button objects to the array of shape names so a button is added to the body of the window for each shape in the shape array that have the value of the shape name. I then add the shape() function as a function to execute when the each button is clicked using attr(‘onclick’, ‘shape(this)’). When each button is clicked, the value is checked and a shape corresponding to that value is added to the SVG. A class is also added to the shape so that text will appear above it when a user hovers their mouse over it. When another button is pressed, the previous shape is removed from the screen.

Background pattern

Description automatically generated with low confidenceA screenshot of a computer

Description automatically generated with medium confidence

Result:

Onclick function:

# Part 2. Events

## Exercise 3

In addition to the colour change of the shape, I increased the size, added a dotted red border, rotated the shape 45 degrees and added a top margin of 75px so that the full shape showed on screen after being rotated.

After:

Before:

onmouseover properties:

Logo, icon

Description automatically generatedText

Description automatically generated

## Exercise 4.

Need to use .style() rather than .attr() to make transitions work

x.bandwidth() finds width of bar, use to centre align text

Output colour from interpolation is dark orange/brown