- How can D3 access and change the DOM? What do select and selectAll do?
 Select selects a specific element whilst selectAll selects all elements that match the criteria
- 2. What are the d and i in function(d){} and function(d, i){}?

d represents the data associated with a given selection whilst i will correspond with the index

3. Write sample lines of JavaScript to add a div element with class "barChart1" and to add an svg element with class "barChart2" with square dimensions.

<u>Adds a <div> element and a separate <svg> element</u>
if body isn't reselected it'll place the svg element inside the div element.

Proof:

4. Describe append, update, enter, and exit at a high level. What does "selectAll + data + enter + append" refer to?

Append: appends attributes to an element such as the x,y axis position or orientation

Update: updates a given dataset

Enter: enter allows you to dynamically insert new data to the DOM which otherwise would not be displayed

Exit: exit allows you to dynamically remove data from the DOM

5. What are the main differences between drawing a bar chart with HTML and SVG?

HTML is largely limited to rectangular shapes whilst SVG supports drawing primitives like bézier curvers, gradients, clipping and masks

6. In drawing the simple bar chart with D3 and SVG, what elements were appended, and what parts of the graph did these elements correspond to?

A div which is the x,y data for the graph in the SVG canvas

Style for width/height

Text for any text associated with it i.e. numbers