1. How can D3 access and change the DOM? What do select and selectAll do?

SelectAllI method takes a selector string, and returns all elements that match that selector. Select only selects the element in the (). You can for example select a tag. D3.select("body"). D3 can access the dom by using a dot.

2. What are the d and i in function(d){} and function(d, i){}?

The function(d) wil run on each value of our dataset. You can put d in front of the data.

The *i* in the function (d,i){}: represents the order of the elements in the selection, it does not represent the data item itself.

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.
 <body>

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

Append) to add to our page. It takes in an argument, the type of element that needs to be created.

SelectAll) select all the elements that match the selector.

Data) you use data to specify a dataset

Enter) it prepares one new element for every unmatched data item. After enter we specify an append.

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

HTML is limited to rectangular shapes, SVG supports powerful drawing primitives. This is not necessary for bar chars, but using SVG you can make a nice looking design.

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?

Bar.append("rec") = append the bar width
Bar.append("tekst") = append the bar's label position
Append("g") = g is an element. Data join s used to create a g element for each data point