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

Select will select an element for manipulation, either style, attributes or properties. SelectAll will select *all*  of a particular element (i.e.: the paragraph tag) in a document and modify the style, attributes or properties of all the selected elements. D3 allows you to bind data to the DOM and through the select and selectAll it is possible to modify the DOM to apply data driven transformations.

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

The d refers to the data being bound, usually in an array defined in a prior line. The i is an optional argument and refers to the index (zero based) of the element within its selection.

1. 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.