Assignment 5

Visualisation using D3.js

- **Shaurya Singh Srinet**

Task: Visualization for dataset consisting of positive and negative values using D3.js

Steps:

1. Download the D3 example named Bar Chart with Negative from the following location:
   http://blocks.org/mbostock/79a82f4b9bffb69d89ae
2. Edit the code for relevant changes like the following:

```
var data = [–15, –20, –22, –18, 2, 6, –26, –18];

var margin = {top: 30, right: 10, bottom: 10, left: 30},
    width = 960 – margin.left – margin.right,
    height = 500 – margin.top – margin.bottom;

var y0 = Math.max(Math.abs(d3.min(data)),
Math.abs(d3.max(data)));

var y = d3.scale.linear()
    .domain([–y0, y0])
    .range([height,0])
    .nice();

var x = d3.scale.ordinal()
    .domain(d3.range(data.length))
```

```
    .rangeRoundBands([0, width], .2);

var yAxis = d3.svg.axis()
    .scale(y)
    .orient("left");

var svg = d3.select("body").append("svg")
    .attr("width", width + margin.left + margin.right)
    .attr("height", height + margin.top + margin.bottom)
  .append("g")
    .attr("transform", "translate(" + margin.left + "," + margin.top +
")");

svg.selectAll(".bar")
    .data(data)
  .enter().append("rect")
    .attr("class", function(d) { return d < 0 ? "bar negative" : "bar
positive"; })
    .attr("y", function(d) { return y(Math.max(0, d)); })
    .attr("x", function(d, i) { return x(i); })
    .attr("height", function(d) { return Math.abs(y(d) - y(0)); })
    .attr("width", x.rangeBand());

svg.append("g")
    .attr("class", "x axis")
    .call(yAxis);

svg.append("g")
    .attr("class", "y axis")
  .append("line")
    .attr("y1", y(0))
    .attr("y2", y(0))
    .attr("x1", 0)
    .attr("x2", width);
```

3. Save the file and view the visualization: