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**Subject:** BDA Practical Exam

### Problem Statement

11. Create a BAR chart on any data set csv file of your choice using D3.js

I

### Solution:-

### HTML FILE:-

```
<!doctype html>
<html>
<head>
  <style>
    .bar {
      fill: #DC143C;
    }
    .bar:hover{
      fill: #FA8072;
      transition: all .2s;
    }
  </style>
  <script src="https://d3js.org/d3.v4.min.js"></script>
</body>
<svg width="1200" height="500"></svg>
<script>
  //create SVG and define scales.
  var svg = d3.select("svg"),
  margin = 200,
    width = svg.attr("width") - margin,
    height = svg.attr("height") - margin
```

```

svg.append("text")
  .attr("transform", "translate(100,0)")
  .attr("x", 50)
  .attr("y", 50)
  .attr("font-size", "30px")
  .text("Students over 11 Years")

var xScale = d3.scaleBand().range([0, width]).padding(0.4),
    yScale = d3.scaleLinear().range([height, 0]);

var g = svg.append("g")
  .attr("transform", "translate(" + 100 + "," + 100 + ")");

d3.csv("data.csv", function(error, data) {
  if (error) {
    throw error;
  }

  xScale.domain(data.map(function(d) { return d.year; }));
  yScale.domain([0, d3.max(data, function(d) { return d.value; })]);

  g.append("g")
    .attr("transform", "translate(0," + height + ")")
    .call(d3.axisBottom(xScale))
    .append("text")
    .attr("y", height - 250)
    .attr("x", width - 100)
    .attr("text-anchor", "end")
    .attr("stroke", "black")
    .text("Years");

  g.append("g")
    .call(d3.axisLeft(yScale).tickFormat(function(d){
      return d;
    }))
    .ticks(10)
    .append("text")
    .attr("transform", "rotate(-90)")
    .attr("y", 6)
    .attr("dy", "-5.1em")
    .attr("text-anchor", "end")
    .attr("stroke", "black")
    .text("No. of students");

  g.selectAll(".bar")
    .data(data)
    .enter().append("rect")
    .attr("class", "bar")

```

```
.attr("x", function(d) { return xScale(d.year); })
.attr("y", function(d) { return yScale(d.value); })
.attr("width", xScale.bandwidth())
.attr("height", function(d) { return height - yScale(d.value); });
});
</script>
</body>
</html>
```

## Data Set Used :-

year,value

2010, 506

2011, 499

2012, 514

2013, 621

2014, 710

2015, 654

2016, 553

2016, 602

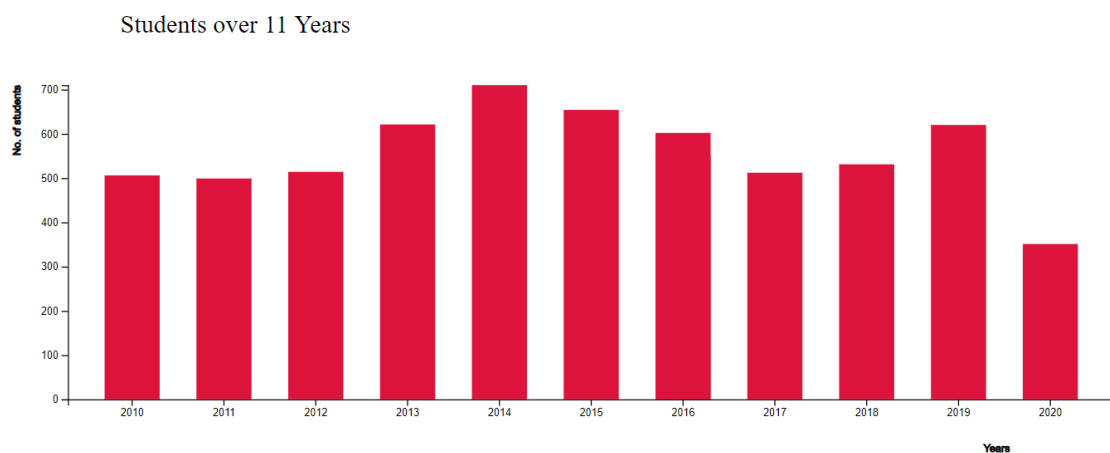
2017, 512

2018, 531

2019, 620

2020, 351

## OUTPUTS :-



**On hover Color changes :-**

Students over 11 Years

