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<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Data Visualisation">
  <meta name="keywords" content="HTML, CSS, D3">
  <meta name="author" content="Dhanveer Ramnauth">
  <meta name="description" content="Data Visualisation">

  <title>Task 2.3 D3 Data Binding</title>
  <script src="https://cdn.jsdelivr.net/npm/d3@7"></script>
  <link href="css/style.css" rel="stylesheet">
</head>

<body>
  <h1>The D3 Journey starts here...</h1>

  <script>

    let dataset = [
      [5, 20, 3],
      [480, 90, 6],
      [250, 50, 2],
      [100, 33, 5],
      [330, 95, 1],
      [410, 12, 4],
      [475, 44, 7],
      [25, 67, 3],
      [85, 21, 2],
      [220, 28, 6]
    ];

    //SIZE OF CANVAS
    let w = 700;
    let h = 200;

    <!--DEFINE CANVAS -->
    let svg = d3.select("body")
      .append("svg")
      .attr("width", w)
      .attr("height", h);

    //spacing between the bars (by modifying width)
    let padding = 1; // size between bar
    let height_multiplier = 4; //make bar big

    //GENERATE CIRCLE
    svg.selectAll("circle")
      .data(dataset) //bind data (counts and prepares)
      .enter() //generate placeholder for data
      .append("circle") //append circle per placeholder
      .attr("cx", function(d, i) { //center X of circle
        return d[0]; //defined in array
      })
      .attr("cy", function(d) { //center Y of circle
        return d[1]; //defined in array
      })
      .attr("r", function(d) { //radius of circle
        return d[2]; //defined in array
      }) //radius
      .attr("fill", "slategray"); //set color

    //GENERATE LABELS
    svg.selectAll("text")
      .data(dataset) //bind data (counts and prepares)
      .enter() //generate placeholder for data
      .append("text") //append text svg per placeholder
      .text(function(d) { //set text
        return d[0] + "," + d[1] //comma separated coords
      })
      .attr("x", function(d, i) { //x coord
        return d[0] + d[2]; //x + radius (right)
      })
      .attr("y", function(d, i) { //y coord
        return d[1] - d[2]; //y - radius (above)
      })
      .attr("font-size", "11"); //set font size

  </script>

  <br>

  <footer>
    Data Visualisation <br>Dhanveer Ramnauth
  </footer>

</body>
```

