

WEEK 1

Aim: To develop different basic Graphical Shapes using HTML5 canvas

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>week 1 practice</title>
  <script>
    function draw(){
      var canvas = document.getElementById('mycanvas')
      var ctx = canvas.getContext('2d')

      ctx.fillStyle = "blue"

      ctx.fillRect(10,10,60,60);
      ctx.fillRect(100,10,80,26);

      ctx.beginPath();
      ctx.arc(220,25,25, 0, 2*Math.PI);
      ctx.fill();

      ctx.beginPath();
      ctx.moveTo(10, 160);
      ctx.lineTo(90, 160)
      ctx.lineTo(50, 110)
      ctx.closePath();
      ctx.fill();
    }
  </script>
</head>
<body onload = 'draw()'>

  <canvas id = 'mycanvas' width = '400px' height = '400px'>

  </canvas>

</body>
</html>
```

OUTPUT:



WEEK 2

Aim: To develop different basic Graphical Shapes using HTML5 SVG

Program:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>SVG Shape</title>
</head>

<body>
  <svg width="600px" height="400px">
    <circle cx="300" cy="250" r="50" fill="blue"></circle>
    <rect width="120" height="100" style="fill: rgb(238, 74 , 9);stroke-width:
3;stroke: rgb(0,0,0);" />

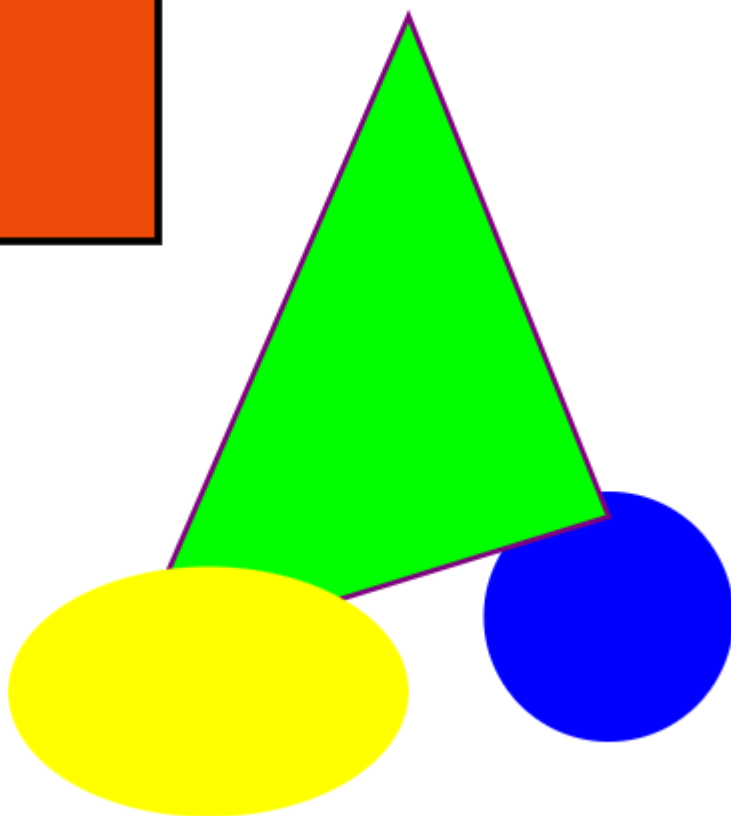
    <polygon points="220,10,300,210,170,250,123,234" style="fill: lime;stroke:
purple;stroke-width: 2;" />

    <ellipse cx="140" cy="280" rx="80" ry="50" style="fill: yellow; stroke-width: 4;"
/>
  </svg>

</body>

</html>
```

OUTPUT:



WEEK -3

Aim: To Develop a javascript code that recives input from the user and get in action based on user input using HTML5 and Javascript

Program:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>week 3</title>
  <style>
    body {
      background-color: paleturquoise;
      text-align: center;
    }

    h2 {
      text-transform: uppercase;
      font-size: 46px;
      color: blue;
      padding-bottom: 0px;
    }

    img {
      max-width: 100%;
      max-height: auto;
    }

    p {
      text-shadow: 1cqw;
      font-size: 25px;
      color: rgb(48, 126, 243);
    }
  </style>
</head>

<body>
  <h2>WHAT CAN JAVASCRIPT DO?</h2>
  <p>JavaScript can manipulate the html attribute</p>
  <button onclick="document.getElementById('myImage').src='img1.jpeg'">img1</button>
  
  <button onclick="document.getElementById('myImage').src='img2.jpeg'">img2
  ma</button>

</body>
```

</html>

OUTPUT:

WHAT CAN JAVASCRIPT DO?

JavaScript can manipulate the html attribute



img1

img2 ma

WHAT CAN JAVASCRIPT DO?

JavaScript can manipulate the html attribute



img1

img2 ma

WEEK – 4

Aim: Draw a simple barchart using HTML5 CANVAS

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Bar Chart with Table</title>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 40px;
    }
    table {
      margin-top: 20px;
      border-collapse: collapse;
      width: 100%;
    }
    th, td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }
    th {
      background-color: #f2f2f2;
    }
  </style>
</head>
<body>

  <h2>Week 4</h2>

  <canvas id="myBarChart" width="400" height="200"></canvas>

  <!-- Data Table -->
  <table>
    <thead>
      <tr>
        <th>D1</th>
        <th>Data Value</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>Label 1</td>
        <td>80</td>
      </tr>
    </tbody>
  </table>
```

```

        <tr>
            <td>Label 2</td>
            <td>120</td>
        </tr>
        <tr>
            <td>Label 3</td>
            <td>60</td>
        </tr>
        <tr>
            <td>Label 4</td>
            <td>90</td>
        </tr>
    </tbody>
</table>

```

```

<script>
    var data = {
        labels: ["D1", "D2", "D3", "D4"],
        datasets: [{
            label: "Data",
            backgroundColor: ["blue", "yellow", "black", "pink"],
            data: [180, 142, 110, 96],
        }]
    };

    var ctx = document.getElementById('myBarChart').getContext('2d');

    var myBarChart = new Chart(ctx, {
        type: 'bar',
        data: data,
        options: {
            scales: {
                y: {
                    beginAtZero: true
                }
            }
        }
    });
</script>

```

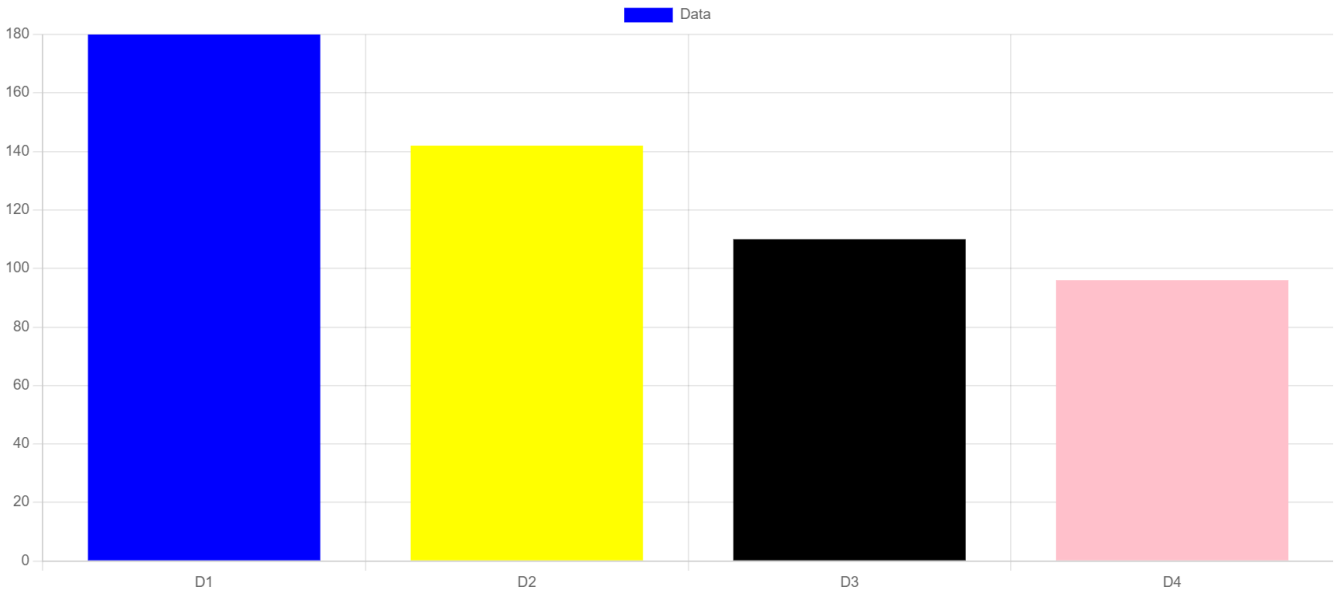
```

</body>
</html>

```


OUTPUT:

Week 4



D1	Data Value
Label 1	80
Label 2	120
Label 3	60
Label 4	90

WEEK – 5

Aim: Read the data .txt file and Draw Table and draw simple bar chart

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Bar Chart with Table</title>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 40px;
    }
    table {
      margin-top: 20px;
      border-collapse: collapse;
      width: 100%;
    }
    th, td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }
    th {
      background-color: #f2f2f2;
    }
  </style>
</head>
<body>

  <h2>Week 5: reading data from the text file</h2>

  <canvas id="myBarChart" width="400" height="165"></canvas>

  <!-- Data Table -->
  <table id="dataTable">
    <thead>
      <tr>
        <th>D1</th>
        <th>Data Value</th>
      </tr>
    </thead>
    <tbody id='tableBody'>
      <!-- Rows will be added here dynamically -->
    </tbody>
  </table>

  <script type='text/javascript'>
    // Function to load txt file
```

```

function loadFile() {
  fetch('week5b.txt')
    .then(response => response.text())
    .then(text => {
      const rows = text.split('\n');
      const labels = [];
      const data = [];

      rows.forEach(row => {
        const [label, value] = row.split(',');
        labels.push(label);
        data.push(value);

        // Add row to table
        document.getElementById('tableBody').innerHTML +=
`<tr><td>${label}</td><td>${value}</td></tr>`;
      });

      // Draw chart
      var chartData = {
        labels: labels,
        datasets: [{
          label: "Data",
          backgroundColor: ["blue", "yellow", "black", "pink"],
          data: data,
        }]
      };

      var ctx = document.getElementById('myBarChart').getContext('2d');

      new Chart(ctx, {
        type: 'bar',
        data: chartData,
        options: {
          scales: {
            y: { beginAtZero:true }
          }
        }
      });
    });
}

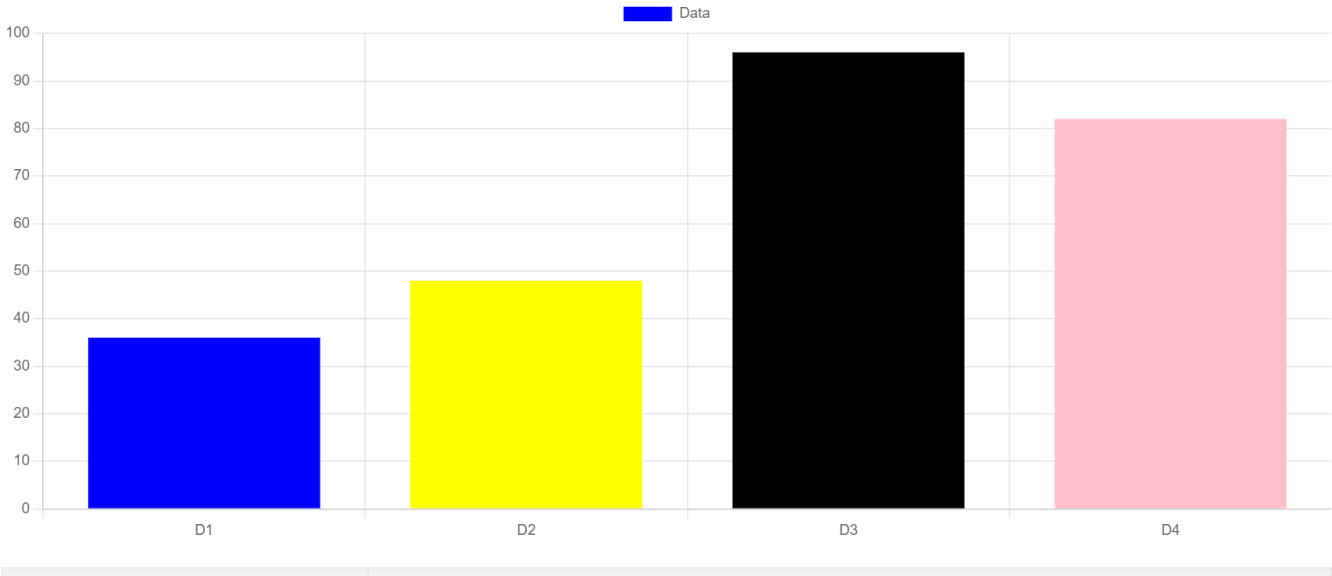
loadFile();
</script>

</body></html>

```

OUTPUT:

Week 5: reading data from the text file



D1	Data Value
D1	36
D2	48
D3	96
D4	82

```
≡ week5b.txt
1  D1, 36
2  D2, 48
3  D3, 96
4  D4, 82
```

WEEK – 6

Aim: To read the data .csv file and draw Data Table and draw column Bar chart

Program:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Bar Chart with Table</title>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 40px;
    }

    table {
      margin-top: 20px;
      border-collapse: collapse;
      width: 100%;
    }

    th,
    td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }

    th {
      background-color: #f2f2f2;
    }
  </style>
</head>

<body>

  <h2>Week 6: reading data from the csv file</h2>

  <canvas id="myBarChart" width="400" height="165"></canvas>

  <!-- Data Table -->
  <table id="dataTable">
    <thead>
      <tr>
        <th>D1</th>
        <th>Data Value</th>
      </tr>
```

```

    </thead>
    <tbody id='tableBody'>
        <!-- Rows will be added here dynamically -->
    </tbody>
</table>

<script type='text/javascript'>
    // Function to load txt file
    function loadFile() {
        fetch('week6b.csv')
            .then(response => response.text())
            .then(text => {
                const rows = text.split('\n');
                // Declare the labels and data arrays
                var labels = [];
                var data = [];

                // Loop through the rows of the data
                for (var i = 0; i < rows.length; i++) {
                    // Get the value of the ith row
                    var row = rows[i];
                    // Split the row by comma to get the label and value
                    var [label, value] = row.split(",");
                    // Push the label and value to the arrays
                    labels.push(label);
                    data.push(value);
                    // Create a table row element
                    var tr = document.createElement("tr");
                    // Create a table cell element for the label
                    var td1 = document.createElement("td");
                    td1.textContent = label;
                    // Create a table cell element for the value
                    var td2 = document.createElement("td");
                    td2.textContent = value;
                    // Append the cells to the row
                    tr.appendChild(td1);
                    tr.appendChild(td2);
                    // Append the row to the table body
                    document.getElementById('tableBody').appendChild(tr);
                }

                // Draw chart
                var chartData = {
                    labels: labels,
                    datasets: [{
                        label: "Data",
                        backgroundColor: ["blue", "yellow", "black", "pink"],
                        data: data,
                    }]
                };

                var ctx = document.getElementById('myBarChart').getContext('2d');

```

```
        new Chart(ctx, {
            type: 'bar',
            data: chartData,
            options: {
                scales: {
                    y: { beginAtZero: true }
                }
            }
        });
    });
}

loadFile();
</script>

</body>

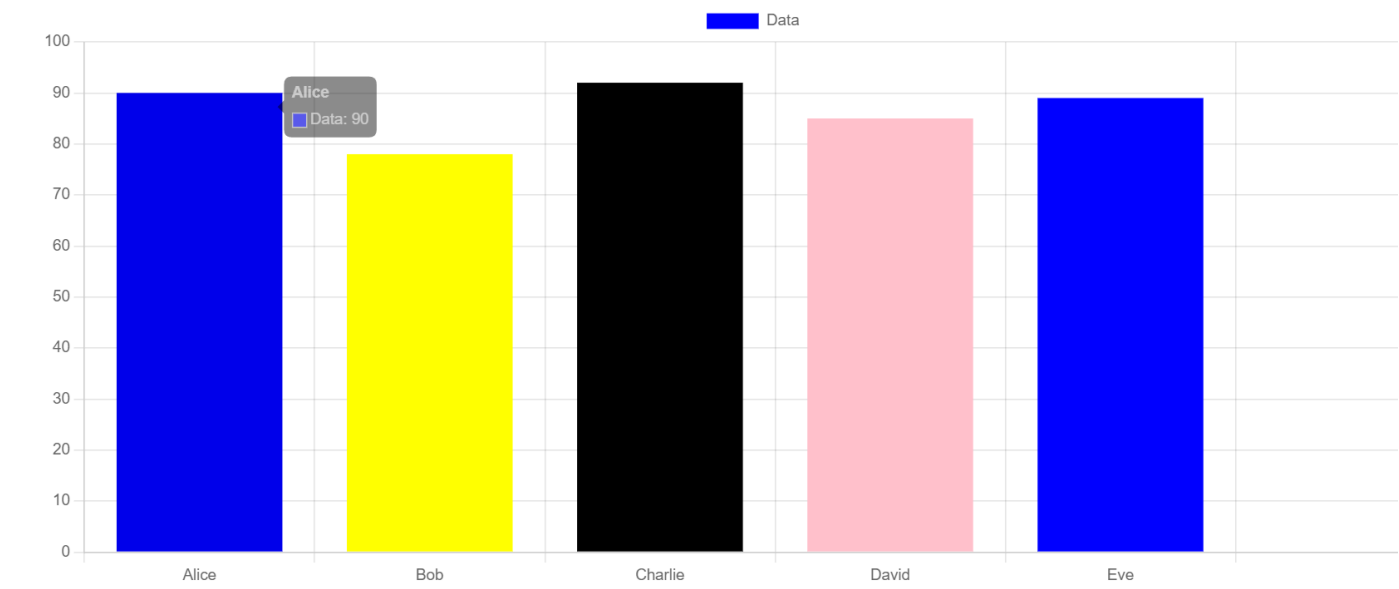
</html>
```

 week6b.csv >  data

```
1  Alice,90
2  Bob,78
3  Charlie,92
4  David,85
5  Eve,89
6  
```

OUTPUT

Week 6: reading data from the csv file



D1	Data Value
Alice	90
Bob	78
Charlie	92
David	85
Eve	89

WEEK – 7

AIM: Read the data XML file and Draw Table and draw simple bar chart

Program:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Bar Chart with Table</title>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 40px;
    }

    table {
      margin-top: 20px;
      border-collapse: collapse;
      width: 100%;
    }

    th,
    td {
      border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }

    th {
      background-color: #f2f2f2;
    }
  </style>
</head>

<body>

  <h2>Week 7: reading data from the xml file</h2>

  <canvas id="myBarChart" width="400" height="165"></canvas>

  <!-- Data Table -->
  <table id="dataTable">
    <thead>
      <tr>
        <th>D1</th>
        <th>Data Value</th>
      </tr>
    </thead>
    <tbody id='tableBody'>
```

```

        <!-- Rows will be added here dynamically -->
    </tbody>
</table>

<script type='text/javascript'>
    // Function to load txt file
    function loadFile() {
        fetch('week7a.xml')
            .then(response => response.text())
            .then(str => {
                // Parse the XML string
                let parser = new DOMParser();
                let xml = parser.parseFromString(str, "text/xml");

                // Declare the labels and data arrays
                var labels = [];
                var data = [];

                // Get all the 'row' elements from the XML
                let rows = xml.getElementsByTagName('row');

                // Loop through the rows of the data
                for (let i = 0; i < rows.length; i++) {
                    // Get the value of the ith row
                    let row = rows[i];
                    // Get the label and value from the row element
                    let label = row.getElementsByTagName('name')[0].textContent;
                    let value = row.getElementsByTagName('score')[0].textContent;
                    // Push the label and value to the arrays
                    labels.push(label);
                    data.push(value);
                    // Create a table row element
                    var tr = document.createElement("tr");
                    // Create a table cell element for the label
                    var td1 = document.createElement("td");
                    td1.textContent = label;
                    // Create a table cell element for the value
                    var td2 = document.createElement("td");
                    td2.textContent = value;
                    // Append the cells to the row
                    tr.appendChild(td1);
                    tr.appendChild(td2);
                    // Append the row to the table body
                    document.getElementById('tableBody').appendChild(tr);
                }

                // Draw chart
                var chartData = {
                    labels: labels,
                    datasets: [{
                        label: "Data",
                        backgroundColor: ["blue", "yellow", "black", "pink"],
                        data: data,

```

```

        }]
    };

    var ctx = document.getElementById('myBarChart').getContext('2d');

    new Chart(ctx, {
        type: 'bar',
        data: chartData,
        options: {
            scales: {
                y: { beginAtZero: true }
            }
        }
    });
});
}

loadFile();
</script>

</body>

</html>

```

week7a.xml

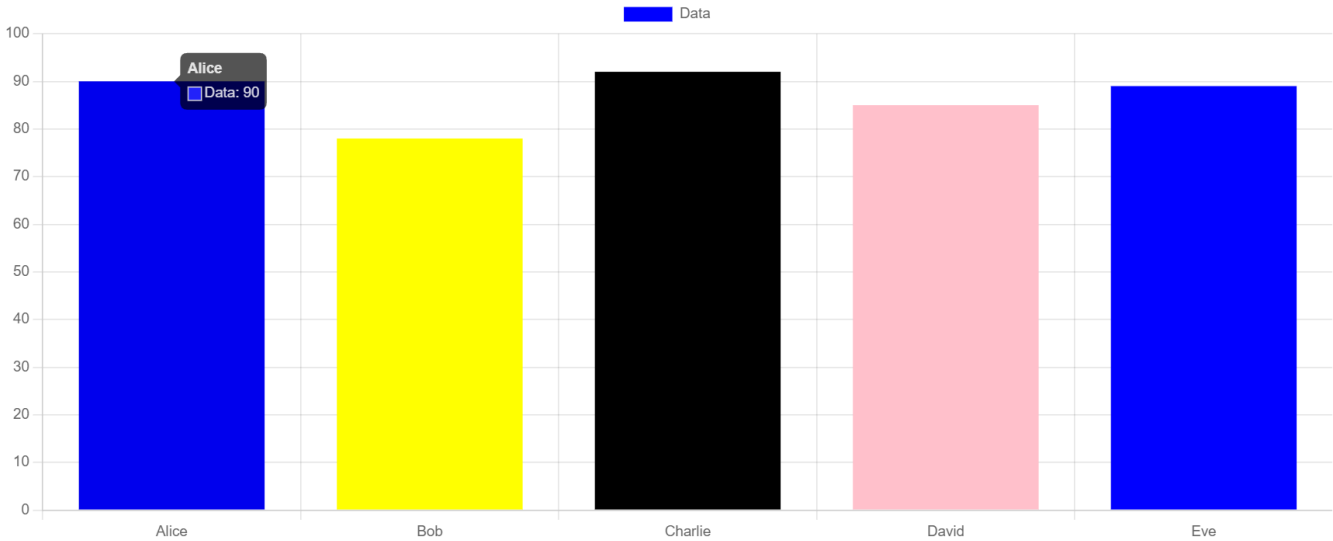
```

1  <rows>
2      <row>
3          <name>Alice</name>
4          <score>90</score>
5      </row>
6      <row>
7          <name>Bob</name>
8          <score>78</score>
9      </row>
10     <row>
11         <name>Charlie</name>
12         <score>92</score>
13     </row>
14     <row>
15         <name>David</name>
16         <score>85</score>
17     </row>
18     <row>
19         <name>Eve</name>
20         <score>89</score>
21     </row>
22 </rows>

```

OUTPUT:

Week 7: reading data from the xml file



D1	Data Value
Alice	90
Bob	78
Charlie	92
David	85
Eve	89