SYSTEMS LAB-II, RCOEM

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Branch & Sem : CSE-A IV
Batch : A
Practical No. 7(Part-2)

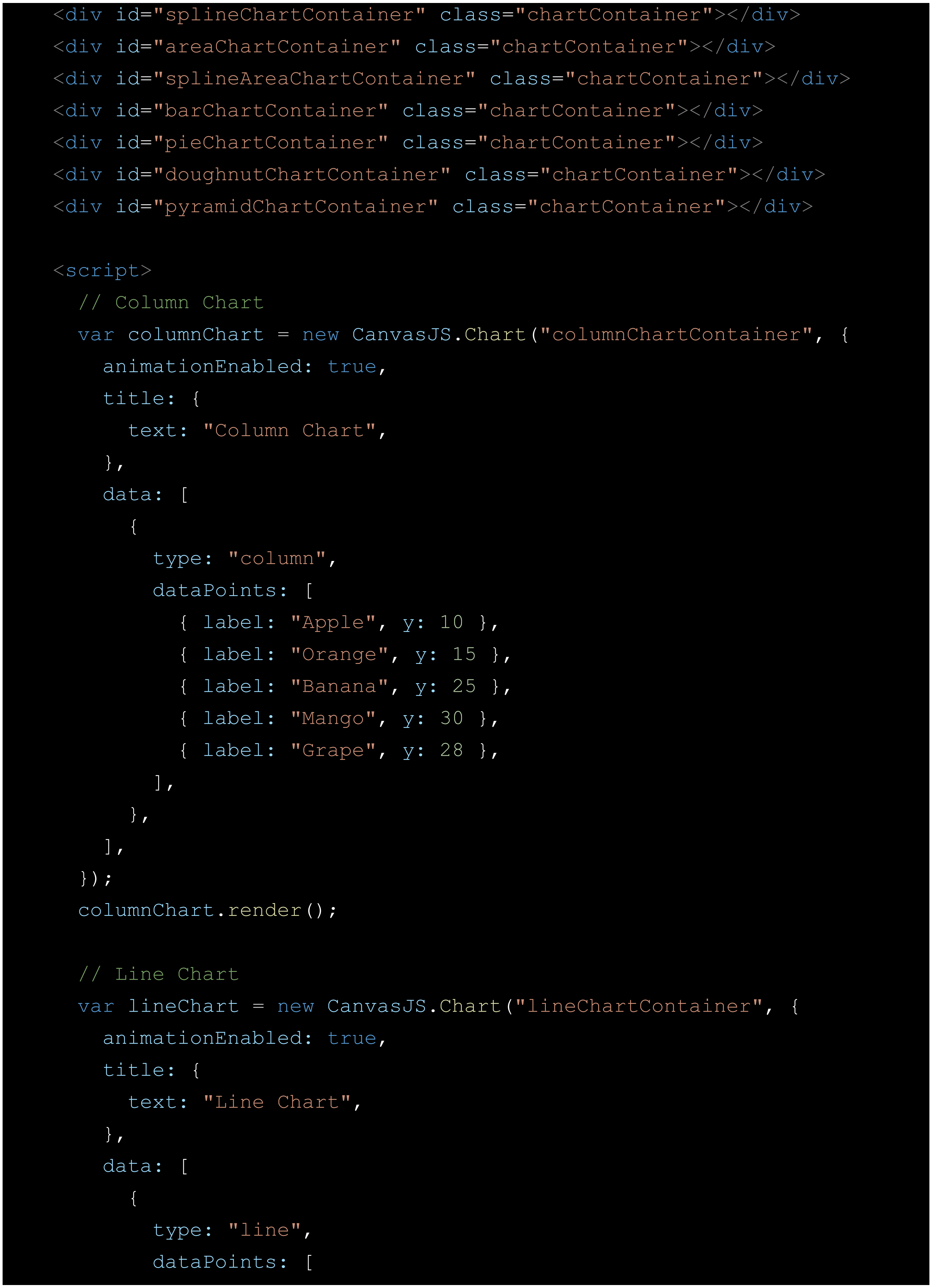
Aim :

To Design Different types of charts using CanvasJS library.

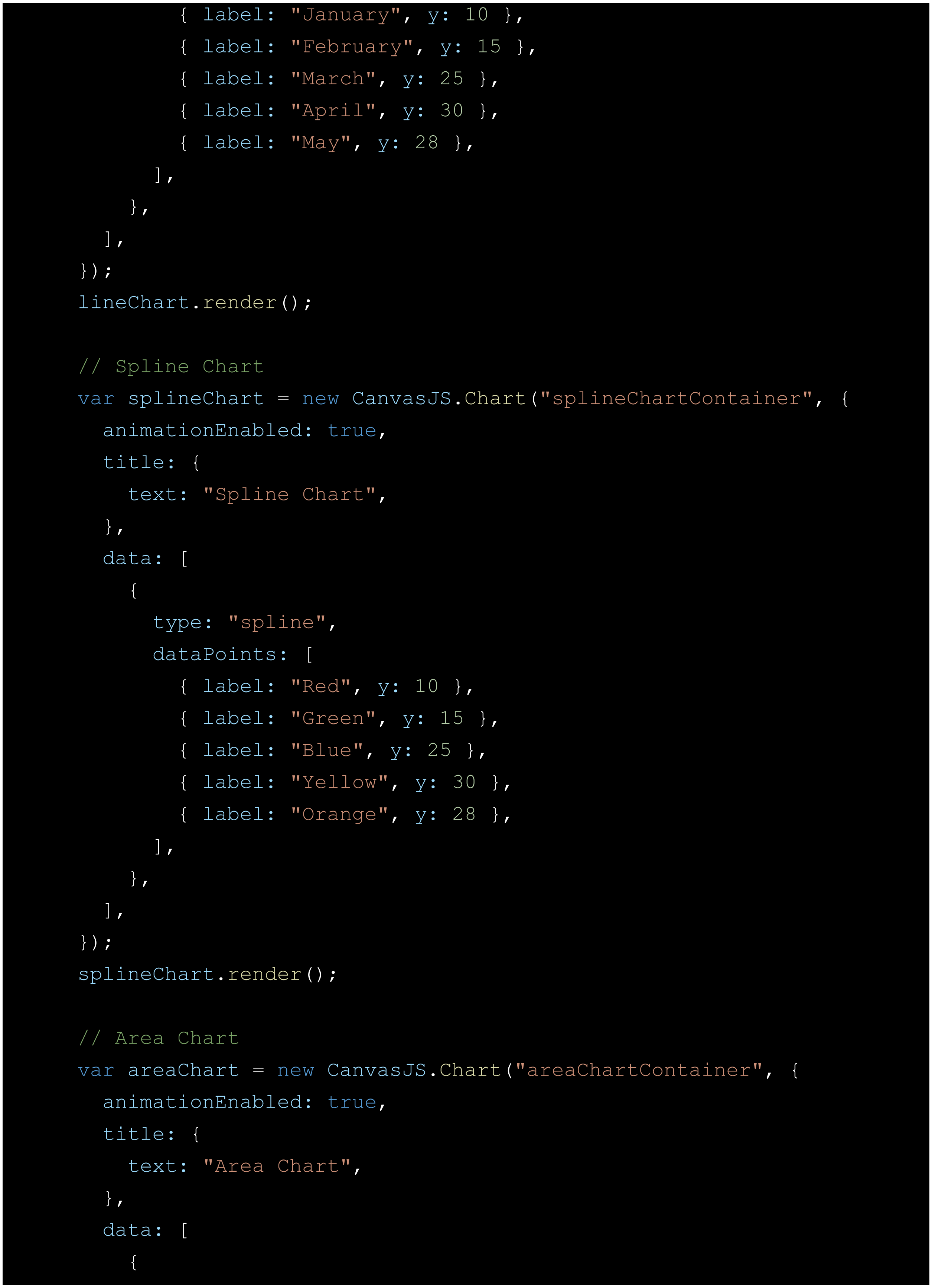
Code :

Canvajs.html

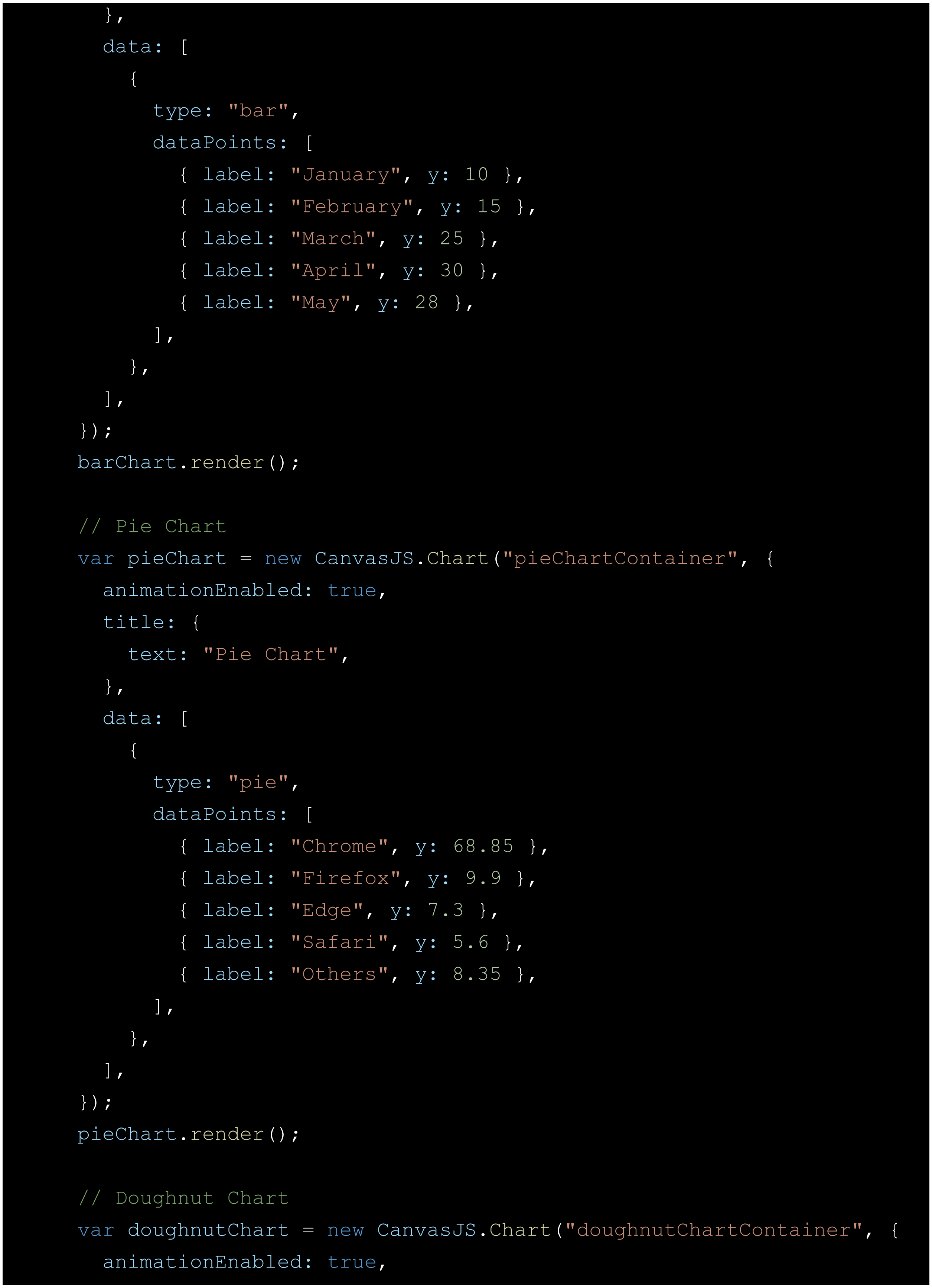
```
<!DOCTYPE html>
<html>
  <head>
    <title>Chart Examples</title>
    <style>
      .chartContainer {
        height: 300px;
        width: 100%;
        margin-bottom: 150px;
      }
      h1 {
        text-align: center;

      }
    </style>
    <script
src="https://canvasjs.com/assets/script/canvasjs.min.js"></script>
  </head>
  <body>
    <h1>Chart Examples</h1>

    <div id="columnChartContainer" class="chartContainer"></div>
    <div id="lineChartContainer" class="chartContainer"></div>
```



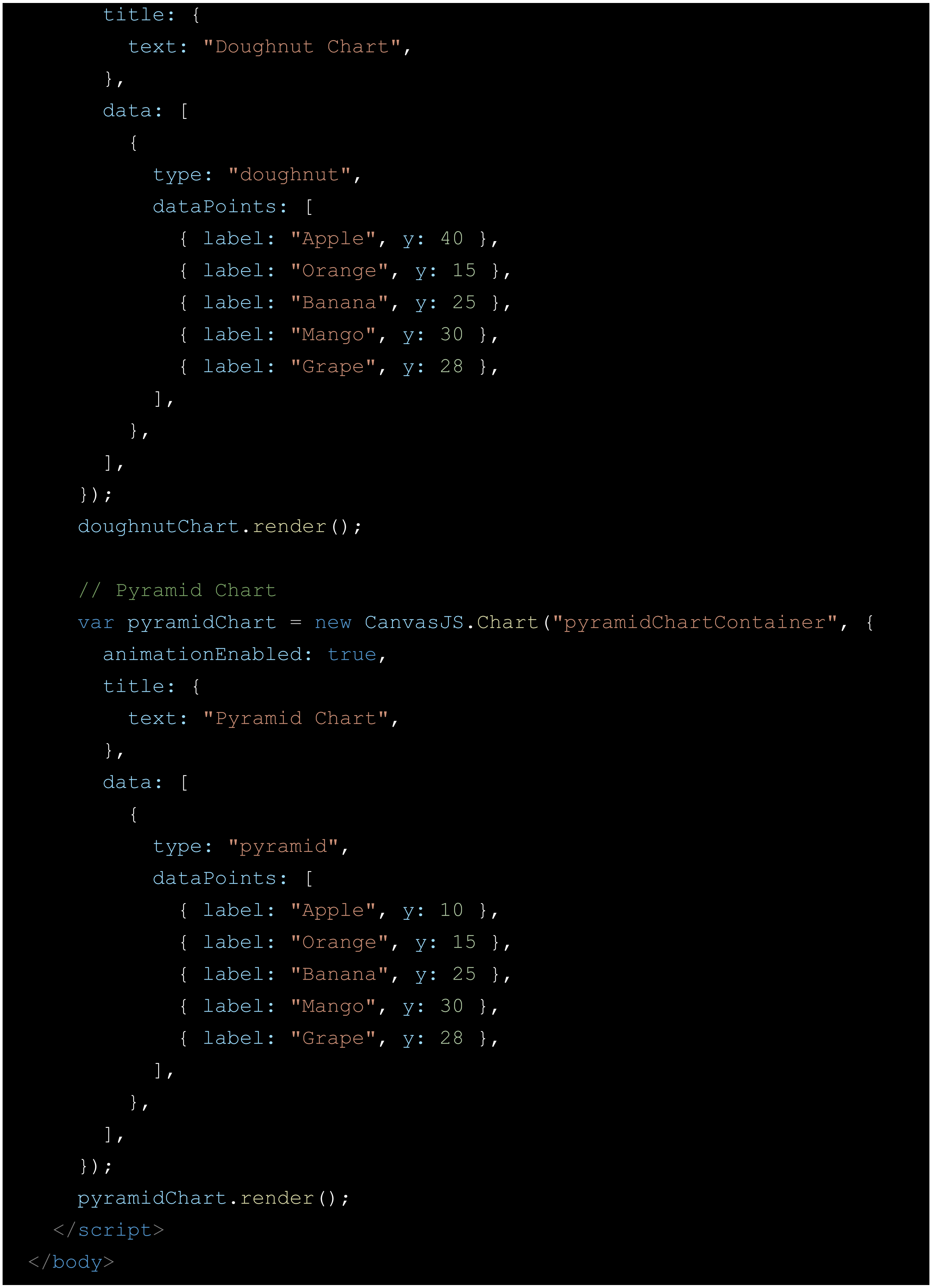
```
<div id="splineChartContainer" class="chartContainer"></div>
<div id="areaChartContainer" class="chartContainer"></div>
<div id="splineAreaChartContainer" class="chartContainer"></div>
<div id="barChartContainer" class="chartContainer"></div>
<div id="pieChartContainer" class="chartContainer"></div>
<div id="doughnutChartContainer" class="chartContainer"></div>
<div id="pyramidChartContainer" class="chartContainer"></div>

<script>
  // Column Chart
  var columnChart = new CanvasJS.Chart("columnChartContainer", {
    animationEnabled: true,
    title: {
      text: "Column Chart",
    },
    data: [
      {
        type: "column",
        dataPoints: [
          { label: "Apple", y: 10 },
          { label: "Orange", y: 15 },
          { label: "Banana", y: 25 },
          { label: "Mango", y: 30 },
          { label: "Grape", y: 28 },
        ],
      },
    ],
  });
  columnChart.render();

  // Line Chart
  var lineChart = new CanvasJS.Chart("lineChartContainer", {
    animationEnabled: true,
    title: {
      text: "Line Chart",
    },
    data: [
      {
        type: "line",
        dataPoints: [
```



```
        { label: "January", y: 10 },
        { label: "February", y: 15 },
        { label: "March", y: 25 },
        { label: "April", y: 30 },
        { label: "May", y: 28 },
      ],
    },
  ],
});
lineChart.render();

// Spline Chart
var splineChart = new CanvasJS.Chart("splineChartContainer", {
  animationEnabled: true,
  title: {
    text: "Spline Chart",
  },
  data: [
    {
      type: "spline",
      dataPoints: [
        { label: "Red", y: 10 },
        { label: "Green", y: 15 },
        { label: "Blue", y: 25 },
        { label: "Yellow", y: 30 },
        { label: "Orange", y: 28 },
      ],
    },
  ],
});
splineChart.render();

// Area Chart
var areaChart = new CanvasJS.Chart("areaChartContainer", {
  animationEnabled: true,
  title: {
    text: "Area Chart",
  },
  data: [
    {
            type: "area",
            dataPoints: [
              { label: "Monday", y: 10 },
              { label: "Tuesday", y: 15 },
              { label: "Wednesday", y: 25 },
              { label: "Thursday", y: 30 },
              { label: "Friday", y: 28 },
            ],
          },
        ],
      });
      areaChart.render();

      // Spline Area Chart
      var splineAreaChart = new CanvasJS.Chart("splineAreaChartContainer",
{
        animationEnabled: true,
        title: {
          text: "Spline Area Chart",
        },
        data: [
          {
            type: "splineArea",
            dataPoints: [
              { label: "A", y: 10 },
              { label: "B", y: 15 },
              { label: "C", y: 25 },
              { label: "D", y: 30 },
              { label: "E", y: 28 },
            ],
          },
        ],
      });
      splineAreaChart.render();

      // Bar Chart
      var barChart = new CanvasJS.Chart("barChartContainer", {
        animationEnabled: true,
        title: {
          text: "Bar Chart",
```



```
  },
  data: [
    {
      type: "bar",
      dataPoints: [
        { label: "January", y: 10 },
        { label: "February", y: 15 },
        { label: "March", y: 25 },
        { label: "April", y: 30 },
        { label: "May", y: 28 },
      ],
    },
  ],
});
barChart.render();

// Pie Chart
var pieChart = new CanvasJS.Chart("pieChartContainer", {
  animationEnabled: true,
  title: {
    text: "Pie Chart",
  },
  data: [
    {
      type: "pie",
      dataPoints: [
        { label: "Chrome", y: 68.85 },
        { label: "Firefox", y: 9.9 },
        { label: "Edge", y: 7.3 },
        { label: "Safari", y: 5.6 },
        { label: "Others", y: 8.35 },
      ],
    },
  ],
});
pieChart.render();

// Doughnut Chart
var doughnutChart = new CanvasJS.Chart("doughnutChartContainer", {
  animationEnabled: true,
```



```
      title: {
        text: "Doughnut Chart",
      },
      data: [
        {
          type: "doughnut",
          dataPoints: [
            { label: "Apple", y: 40 },
            { label: "Orange", y: 15 },
            { label: "Banana", y: 25 },
            { label: "Mango", y: 30 },
            { label: "Grape", y: 28 },
          ],
        },
      ],
    });
    doughnutChart.render();

    // Pyramid Chart
    var pyramidChart = new CanvasJS.Chart("pyramidChartContainer", {
      animationEnabled: true,
      title: {
        text: "Pyramid Chart",
      },
      data: [
        {
          type: "pyramid",
          dataPoints: [
            { label: "Apple", y: 10 },
            { label: "Orange", y: 15 },
            { label: "Banana", y: 25 },
            { label: "Mango", y: 30 },
            { label: "Grape", y: 28 },
          ],
        },
      ],
    });
    pyramidChart.render();
  </script>
</body>
```

```
</html>
```

Output :

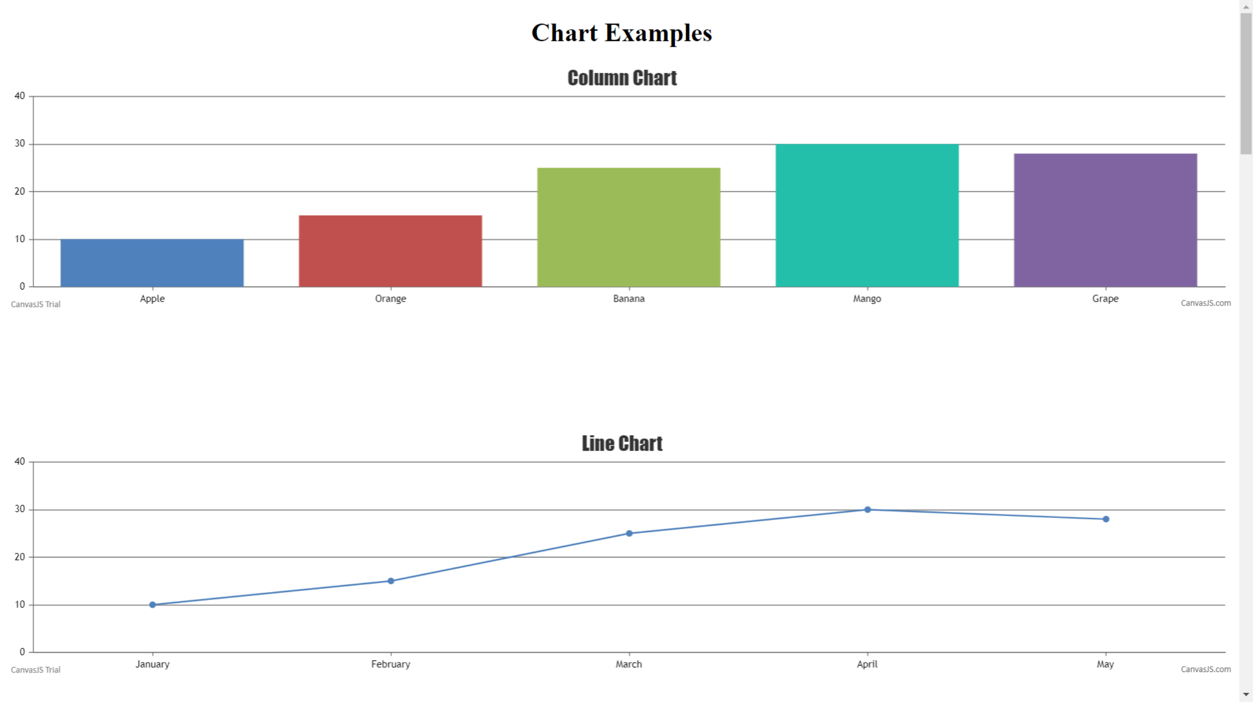
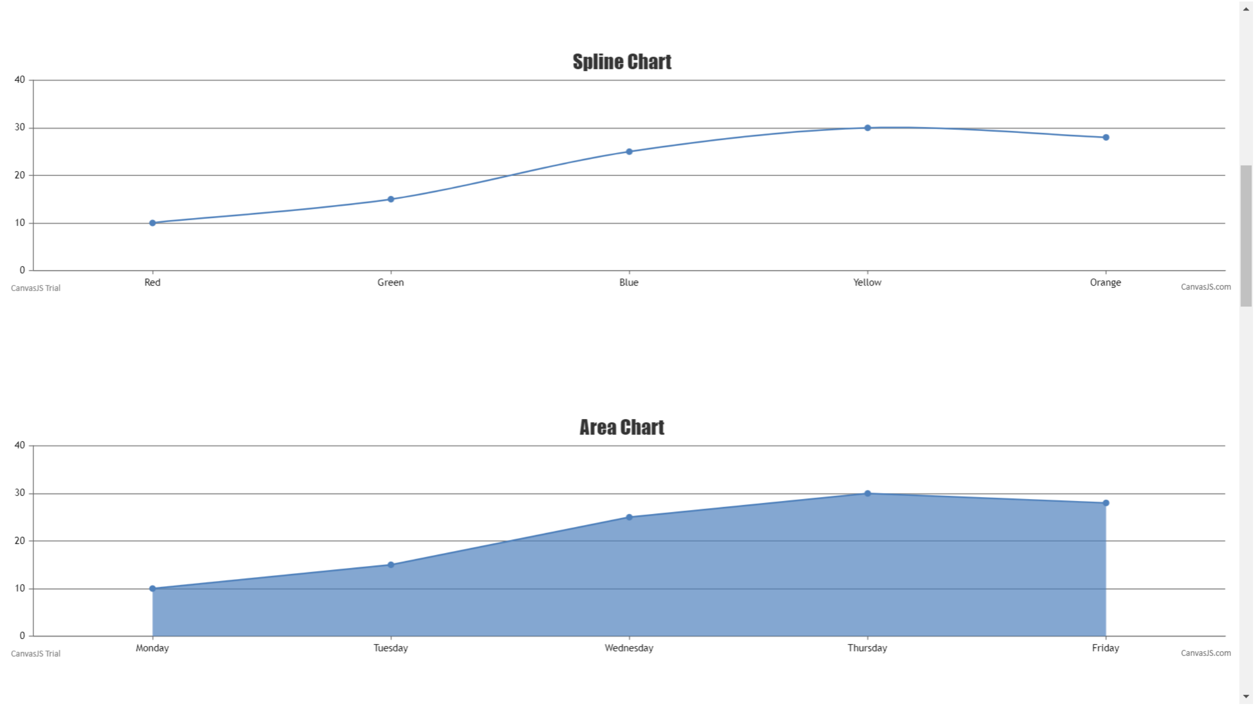
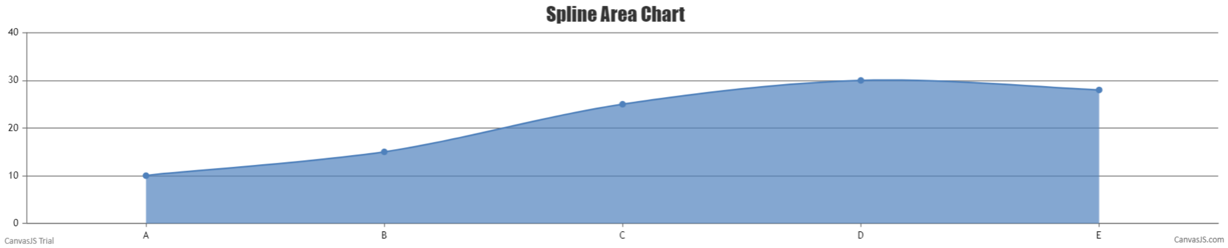
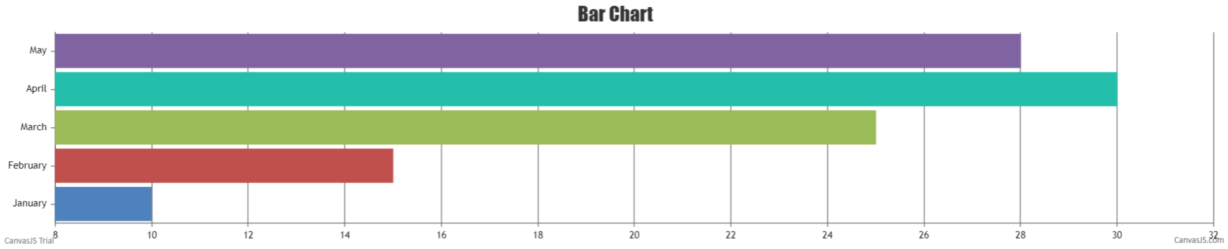
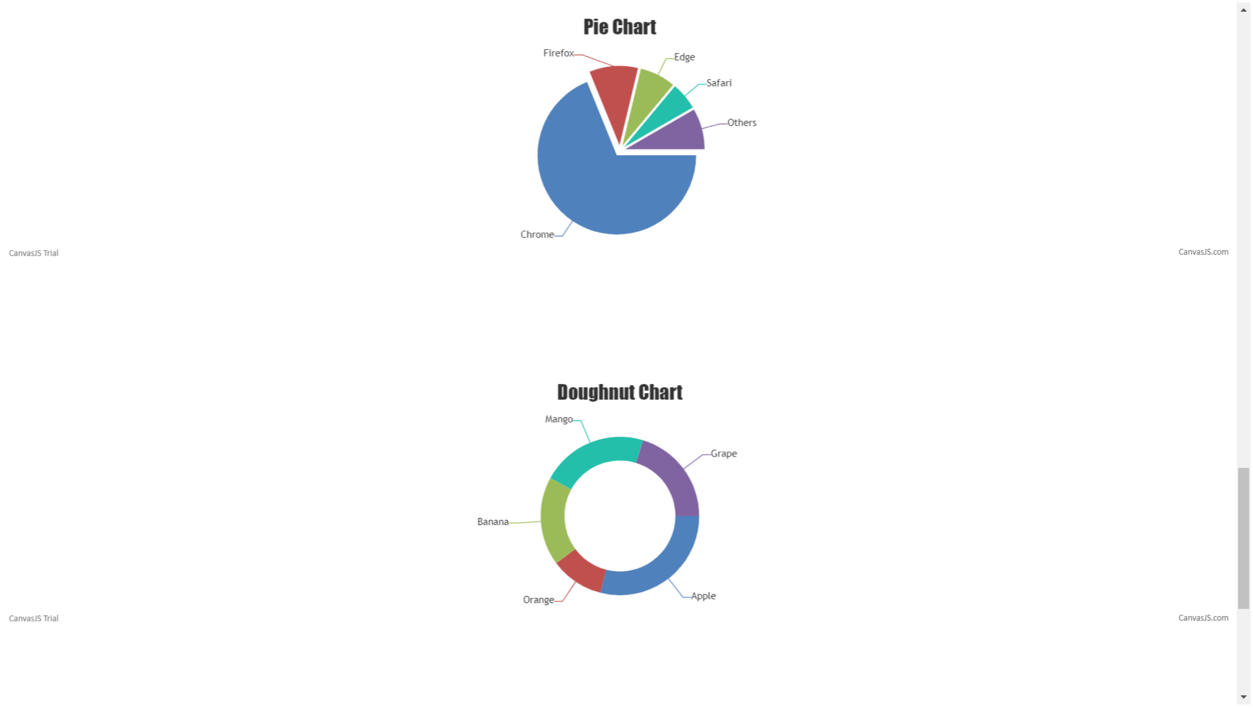


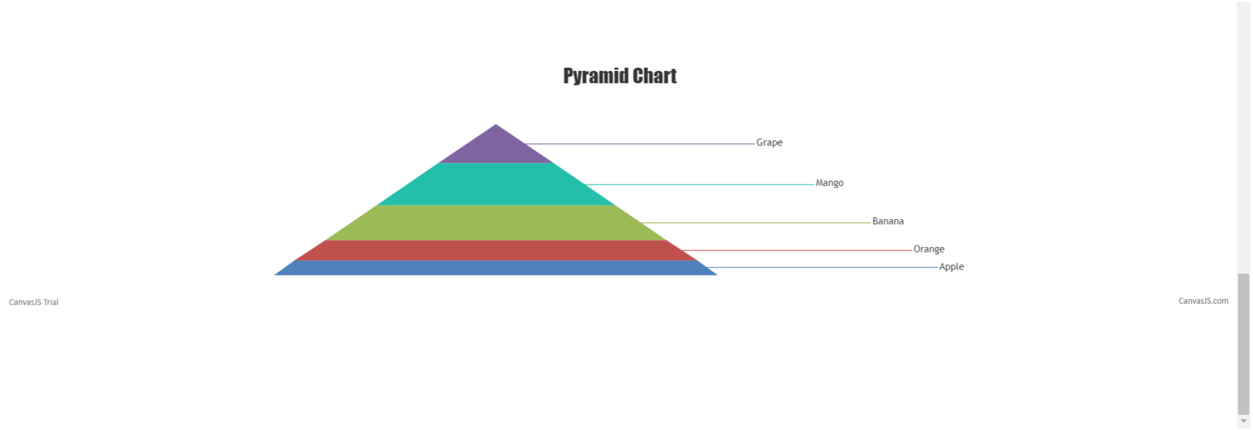
Chart Examples
Column Chart
40
30
20
10
0
Apple
Orange
Banana
Mango
Grape
CanvasJS Trial
CanvasJS.com
Line Chart
40
30
20
10
0
January
February
March
April
May
CanvasJS Trial
CanvasJS.com


Spline Chart
40
30
20
10
0
Red
Green
Blue
Yellow
Orange
CanvasJS Trial
CanvasJS.com
Area Chart
40
30
20
10
0
Monday
Tuesday
Wednesday
Thursday
Friday
CanvasJS Trial
CanvasJS.com


Spline Area Chart
40
30
20
10
0
A
B
C
D
E
CanvasJS Trial
CanvasJS.com


Bar Chart
May
April
March
February
January
8
10
12
14
16
18
20
22
24
26
28
30
32
CanvasJS Trial
CanvasJS.com





Conclusion :

By leveraging the library's capabilities, developers can create visually appealing and interactive charts, such as column charts, line charts, pie charts, and more. This not only improves the user experience but also helps to effectively communicate data insights to the website visitors.