SYSTEMS LAB-II, RCOEM

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<u>**Branch & Sem**</u>: CSE-A IV Sem
<u>**Batch**</u>: A-2
<u>**Practical No. 7 (Part-1)**</u>

<u>**Aim:**</u>

To Design Different types of charts using HiCharts library.

<u>**Code**</u>:

Hicharts.html

```html
<!DOCTYPE html>
<html>
<head>
  <title>Highcharts Website</title>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <div id="barChart"></div>
  <div id="functionChart"></div>
  <div id="lineGraph"></div>
  <div id="pieGraph"></div>
  <div id="donutChart"></div>
  <div id="multilineGraph"></div>

  <script src="https://code.highcharts.com/highcharts.js"></script>
  <script
src="https://code.highcharts.com/modules/accessibility.js"></script>
  <script src="script.js"></script>
</body>
</html>
```

Style.css

```css
.chart-container {
  width: 600px;
```

```css
    height: 400px;
    margin: 20px auto;
}
```

Script.js

```javascript
document.addEventListener("DOMContentLoaded", function () {
  Highcharts.chart("barChart", {
    chart: {
      type: "bar",
    },
    title: {
      text: "Bar Chart",
    },
    xAxis: {
      categories: [
        "Category 1",
        "Category 2",
        "Category 3",
        "Category 4",
        "Category 5",
      ],
    },
    yAxis: {
      title: {
        text: "Value",
      },
    },
    series: [
      {
        name: "Series 1",
        data: [10, 20, 30, 40, 50],
      },
    ],
  });
  // Line Graph
  Highcharts.chart("lineGraph", {
    chart: {
      type: "line",
    },
```

```javascript
  title: {
    text: "Line Graph",
  },
  xAxis: {
    categories: [
      "Category 1",
      "Category 2",
      "Category 3",
      "Category 4",
      "Category 5",
    ],
  },
  yAxis: {
    title: {
      text: "Value",
    },
  },
  series: [
    {
      name: "Series 1",
      data: [10, 20, 30, 40, 50],
    },
  ],
});

// Pie Graph
Highcharts.chart("pieGraph", {
  chart: {
    type: "pie",
  },
  title: {
    text: "Pie Graph",
  },
  series: [
    {
      name: "Data",
      data: [
        ["Category 1", 10],
        ["Category 2", 20],
        ["Category 3", 30],
```

```javascript
        ["Category 4", 40],
        ["Category 5", 50],
      ],
    },
  ],
});

// Donut Chart
Highcharts.chart("donutChart", {
  chart: {
    type: "pie",
  },
  title: {
    text: "Donut Chart",
  },
  plotOptions: {
    pie: {
      innerSize: "50%",
    },
  },
  series: [
    {
      name: "Data",
      data: [
        ["Category 1", 10],
        ["Category 2", 20],
        ["Category 3", 30],
        ["Category 4", 40],
        ["Category 5", 50],
      ],
    },
  ],
});

// Multiline Graph
Highcharts.chart("multilineGraph", {
  chart: {
    type: "line",
  },
  title: {
```
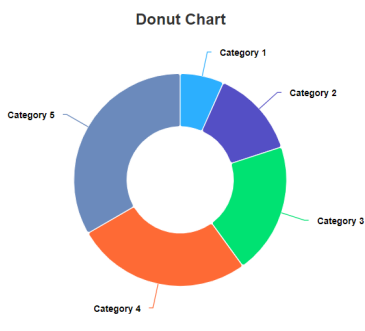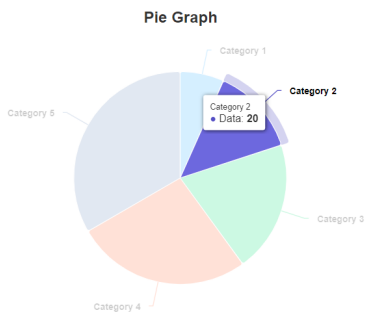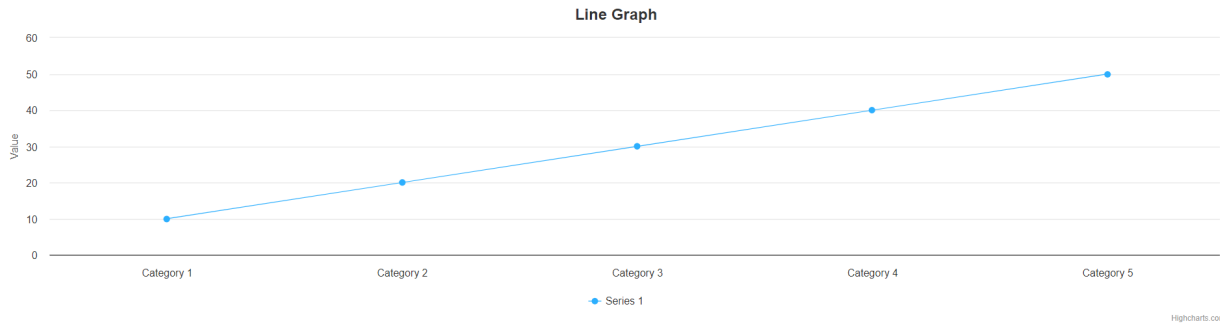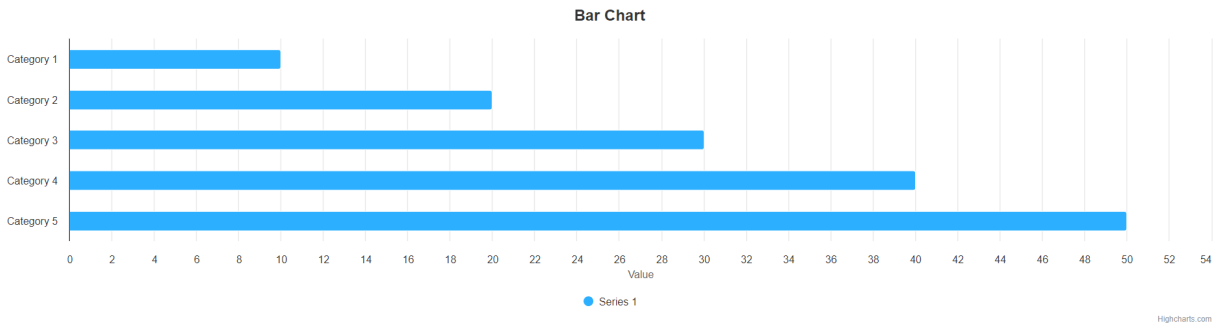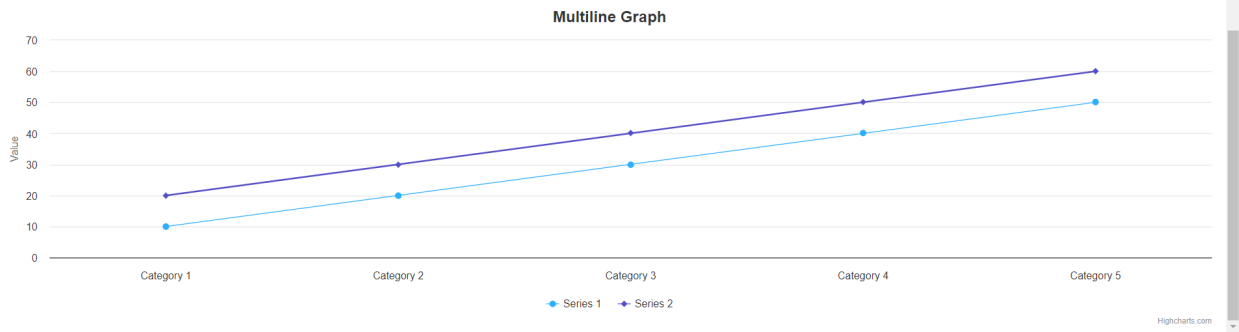
```
      text: "Multiline Graph",
    },
    xAxis: {
      categories: [
        "Category 1",
        "Category 2",
        "Category 3",
        "Category 4",
        "Category 5",
      ],
    },
    yAxis: {
      title: {
        text: "Value",
      },
    },
    series: [
      {
        name: "Series 1",
        data: [10, 20, 30, 40, 50],
      },
      {
        name: "Series 2",
        data: [20, 30, 40, 50, 60],
      },
    ],
  });
});
```

Output :

Bar Chart

Category	Value
Category 1	10
Category 2	20
Category 3	30
Category 4	40
Category 5	50

Value

● Series 1

Line Graph

Category	Value
Category 1	10
Category 2	20
Category 3	30
Category 4	40
Category 5	50

Value

● Series 1

Pie Graph

Category 1
Category 2
Category 3
Category 4
Category 5

Category 2
● Data: 20

Donut Chart

Category 1
Category 2
Category 3
Category 4
Category 5

Multiline Graph

Conclusion :

In conclusion, the HiCharts library provides a versatile and user-friendly solution for designing various types of charts, enabling effective data visualization and analysis. Its extensive customization options and compatibility with different data formats make it a valuable tool for professionals in diverse fields.