Exercise 10 Date:

# Create a data visualization (e.g., pie charts, bar graphs) for an inventory management system using javascript

#### AIM:

The aim is to create data visualizations, such as pie charts and bar graphs, for an inventory management system using JavaScript.

### **PROCEDURE:**

```
Step 1: Set Up Your HTML File
```

First, create an HTML file to hold your canvas for the chart and include Chart.js.

#### html

```
Interview of the state of
```

```
</style>
</head>
<body>
  <h1>Inventory Management System</h1>
  <canvas id="pieChart" width="400"</pre>
  height="400"></canvas> <canvas id="barChart"
  width="400" height="400"></canvas> <script
  src="https://cdn.jsdelivr.net/npm/chart.js"></script> <script</pre>
  src="script.js"></script>
</body>
</html>
    Step 2: Create the JavaScript File for Charts
Next, create a JavaScript file (script.js) to handle the data visualization
logic. javascript
                                             script.j
                                      // Data for the inventory
const inventoryData = {
  labels: ['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],
  datasets: [
     {
       label: 'Items in Stock',
       data: [200, 150, 100, 80, 50],
       backgroundColor: [
          '#FF6384',
          '#36A2EB',
```

```
'#FFCE56',
          '#4BC0C0',
          '#9966FF'
       ],
};
// Creating the Pie Chart
const ctxPie = document.getElementById('pieChart').getContext('2d');
const pieChart = new Chart(ctxPie, {
  type: 'pie',
  data: inventoryData,
  options: {
     responsive: true,
    title: {
       display: true,
       text: 'Inventory Distribution'
     }
});
// Creating the Bar Chart
const ctxBar = document.getElementById('barChart').getContext('2d');
const barChart = new Chart(ctxBar, {
  type: 'bar',
  data: inventoryData,
  options: {
     responsive: true,
```

```
title: {
    display: true,
    text: 'Items in Stock by

Category' },
scales: {
    yAxes: [{
        ticks: {
            beginAtZero: true
        }
      }]
    }
});
```

### **OUTPUT:**

# **Inventory Management System**

