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
```

```
}
  </style>
</head>
<body>
  <h1>Inventory Management System</h1>
  <canvas id="pieChart" width="400" height="400"></canvas>
  <canvas id="barChart" width="400" height="400"></canvas>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <script 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.js
// 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',
```

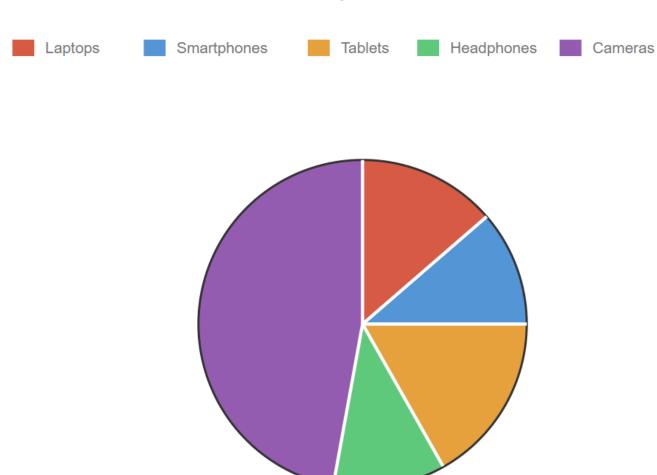
```
'#4BC0C0',
          '#9966FF'
       ],
  ]
};
// Creating the Pie Chart
const ctxPie = document.getElementById('pieChart').getContext('2d');
const pieChart = new Chart(ctxPie, {
  type: 'pie',
  data: inventoryData,
  options: {
    responsive: true,
    title: {
       display: true,
       text: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

Inventory Distribution



RESULT:

Hence the Inventory management system with pie charts is implemented and executed.