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:

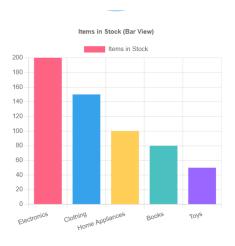
<body>

```
Step 1: Set Up Your HTML File
First, create an HTML file to hold your canvas for the chart and include Chart.js.
html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Inventory Management Visualization</title>
<style>
body {
font-family: Arial, sans-serif;
text-align: center;
margin: 50px;
}
canvas {
margin: 20px auto;
}
</style>
</head>
```

```
<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 } }] } } }



Inventory Management System

