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, suchaspiechartsandbargraphs, for an inventory management system using JavaScript.

PROCEDURE:

Step1: Set UpYourHTMLFile

First, create HTML file to hold your canvasforthechartand include Chart.js.

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
<metacharset="UTF-8">
<metaname="viewport"content="width=device-width,initial-scale=1.0">
<title>InventoryManagement Visualization</title>
<style>
body
{
font-family:Arial,sans-serif;
text-align: center;
margin:50px;
}
```

```
canvas{
    margin:20pxauto;
    display: block;
}

</style>
</head>
<body>
<h1>InventoryManagementSystem</h1>
<canvasid="pieChart"width="400"height="400"></canvas>
<canvasid="barChart"width="400"height="400"></canvas>
<canvasid="barChart"width="400"height="400"></canvas>
<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
<scriptsrc="script.js"></script>
</body>
</html>
```

Step2: Create the Java Script File For Charts

Next, create a JavaScriptfile(script.js)to handle the datavisualization logic.

```
//script.js

//Datafortheinventory

const inventoryData= {

labels:['Electronics','Clothing','HomeAppliances','Books','Toys'],

datasets: [

{

label:'ItemsinStock',

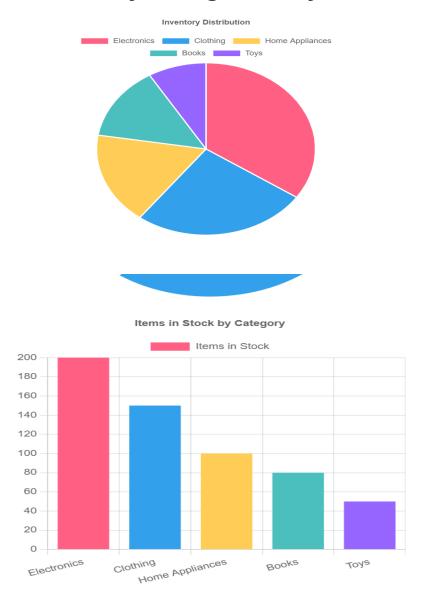
data:[200,150, 100,80,50],
```

```
backgroundColor:[
    '#FF6384',
    '#36A2EB',
     '#FFCE56',
    '#4BC0C0',
    '#9966FF'
//Creating the Pie Chart
constctxPie=document.getElementById('pieChart').getContext('2d'); const
pieChart = new Chart(ctxPie, {
 type:'pie',
 data:inventoryData,
 options: {
 responsive: true,
 plugins: {
   title: {
    display:true,
    text:'InventoryDistribution'
});
```

// Creating BarChart

```
constctxBar=document.getElementById('barChart').getContext('2d'); const
barChart = new Chart(ctxBar, {
 type:'bar',
 data:inventoryData,
 options: {
 responsive: true,
 plugins: {
   title: {
    display:true,
    text:'ItemsinStockby Category'
   }
  },
  scales:{
   y: {
    beginAtZero:true
});
```

Inventory Management System



RESULT:

Data Visualizations, such aspiecharts and bargraphs, for inventory management systems using JavaScript have been successfully created.

Toys

Clothing