

## Lesson 06 Demo 01

# **Creating a Function to Sort the Product List Based on Price**

**Objective:** To demonstrate how to sort a list of products based on their prices using a custom function in JavaScript

Tools Required: Visual Studio Code and Node.js

Prerequisites: None

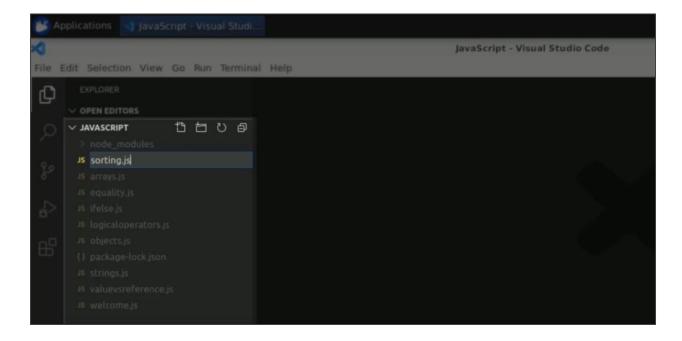
#### Steps to be followed:

1. Declare and populate the products array

2. Define a function to sort the products array

### Step 1: Declare and populate the products array

1.1 Open Visual Studio Code and create a new JavaScript file named sorting.js





1.2 Declare a variable named **products** and assign it an empty array []. Add the product objects to the **products** array



1.3 Create a function named **printArray** to display product details on the console using an enhanced for loop. Run the program



## Step 2: Define a function to sort the products array

2.1 Declare a function named **sortByPrice** that takes two product objects and calculates the price difference between them. Return the price difference from the function

2.2 Call the **printArray** function again to display the sorted list of products objects

```
JS sorting.js > ...
22
23
      function printArray(array){
          for(let item of array){
25
              console.log(item);
 26
          }
27
 28
29
      function sortOnPrice(product1, product2){
          return product1.price - product2.price;
31
 32
33
      products.sort(sortOnPrice);
      printArray(products);
```



By following these steps, you have successfully demonstrated how to sort a list of products based on their prices using a custom function in JavaScript, enhancing your ability to manage and organize data effectively in your applications.