Lesson 06 Demo 02

Creating a Function to Filter the Product List

Objective: To create a function to filter an array of product objects based on specific criteria

Tools Required: Visual Studio Code and Node.js

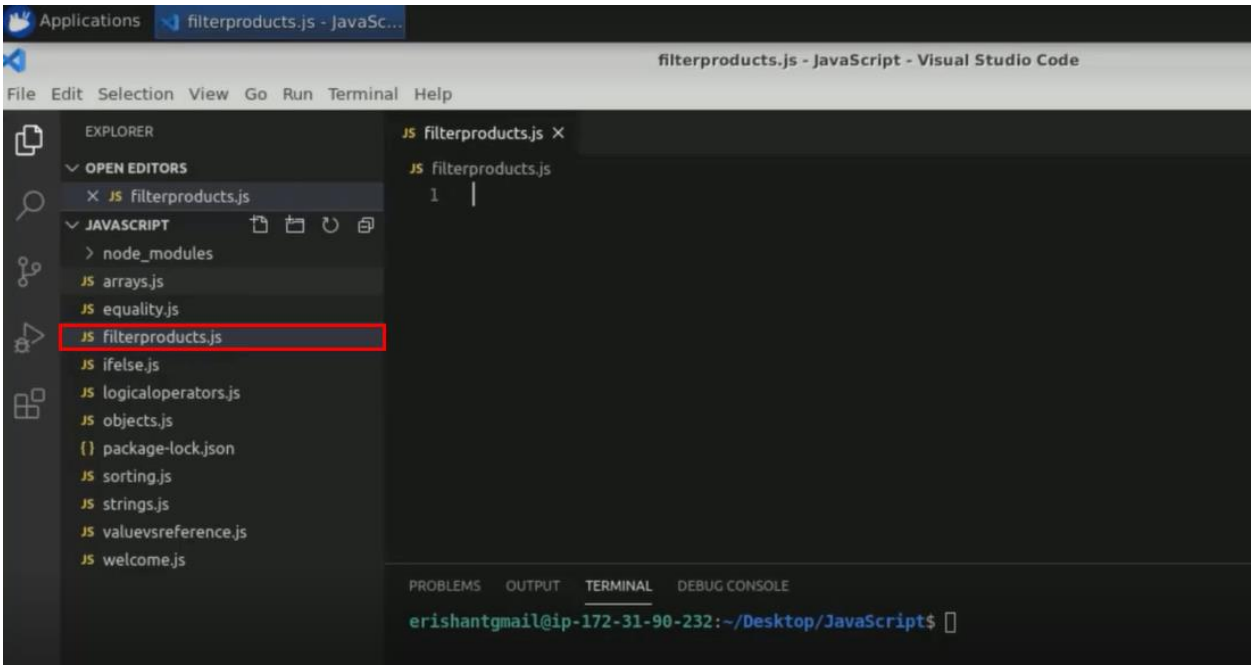
Prerequisites: None

Steps to be followed:

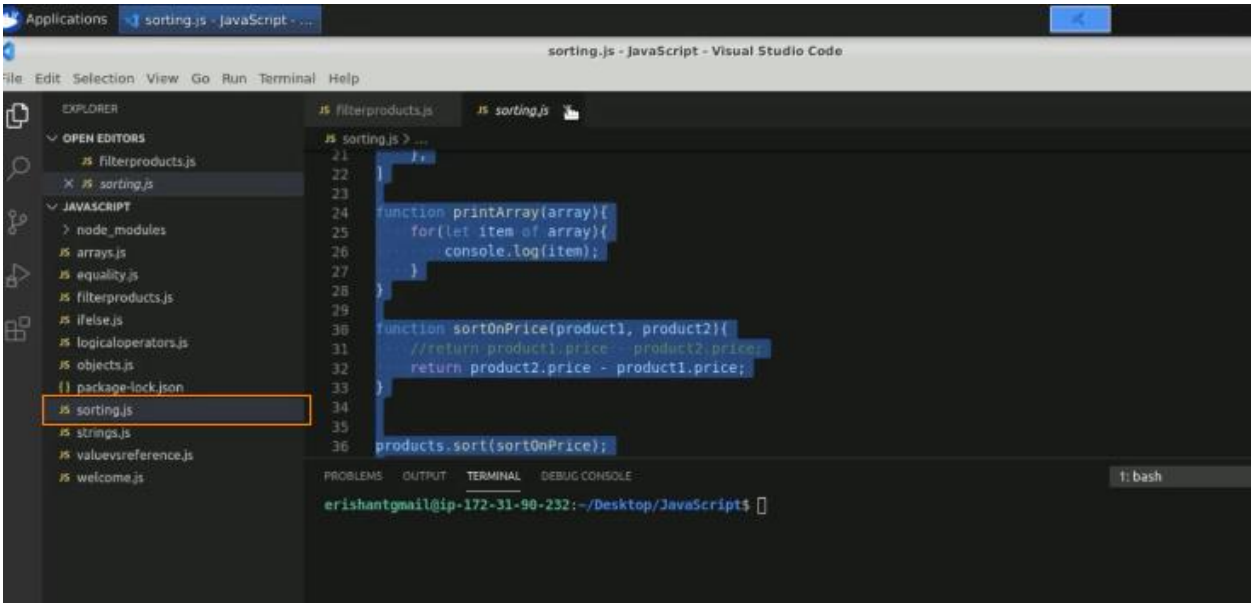
1. Define the filter function

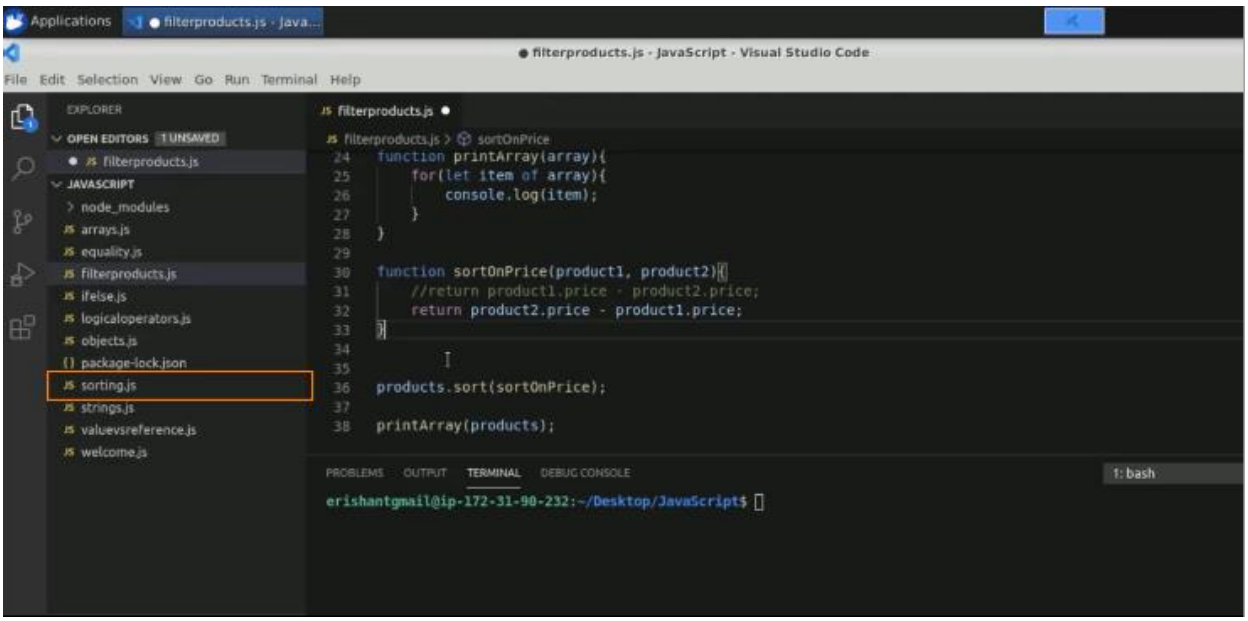
Step 1: Define the filter function

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

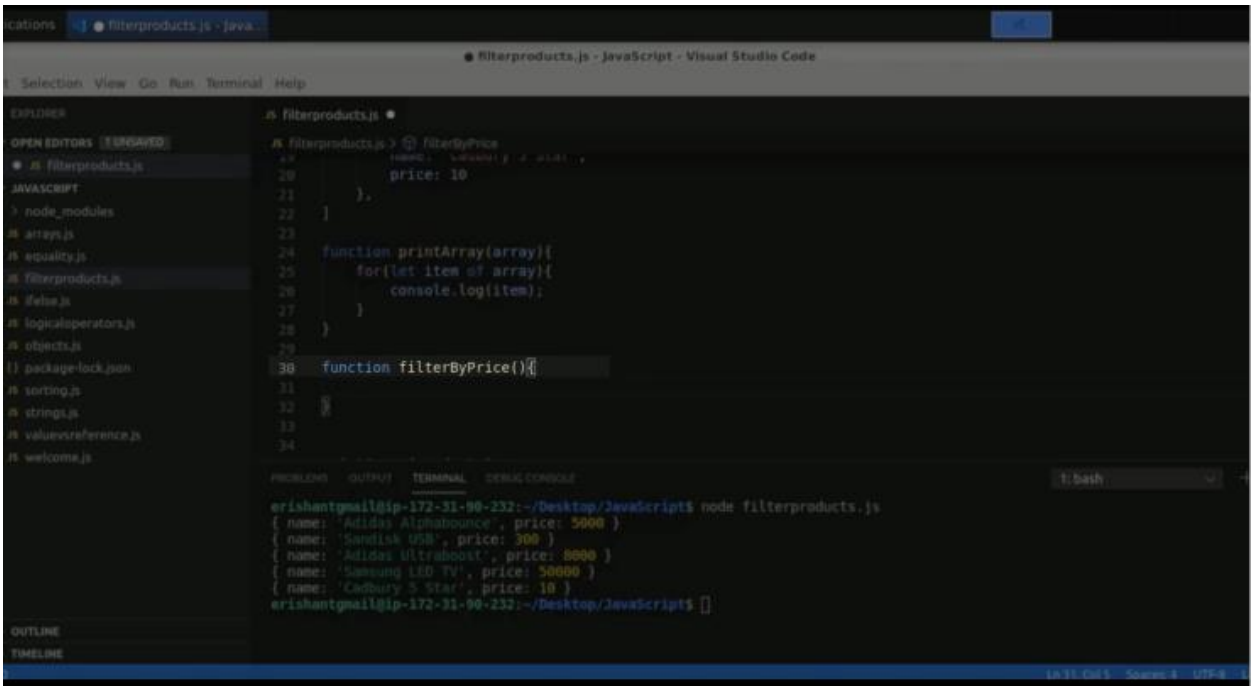


1.2 Copy the code from the previous snippet, **sorting.js**, and paste it into the **filterproducts.js** file

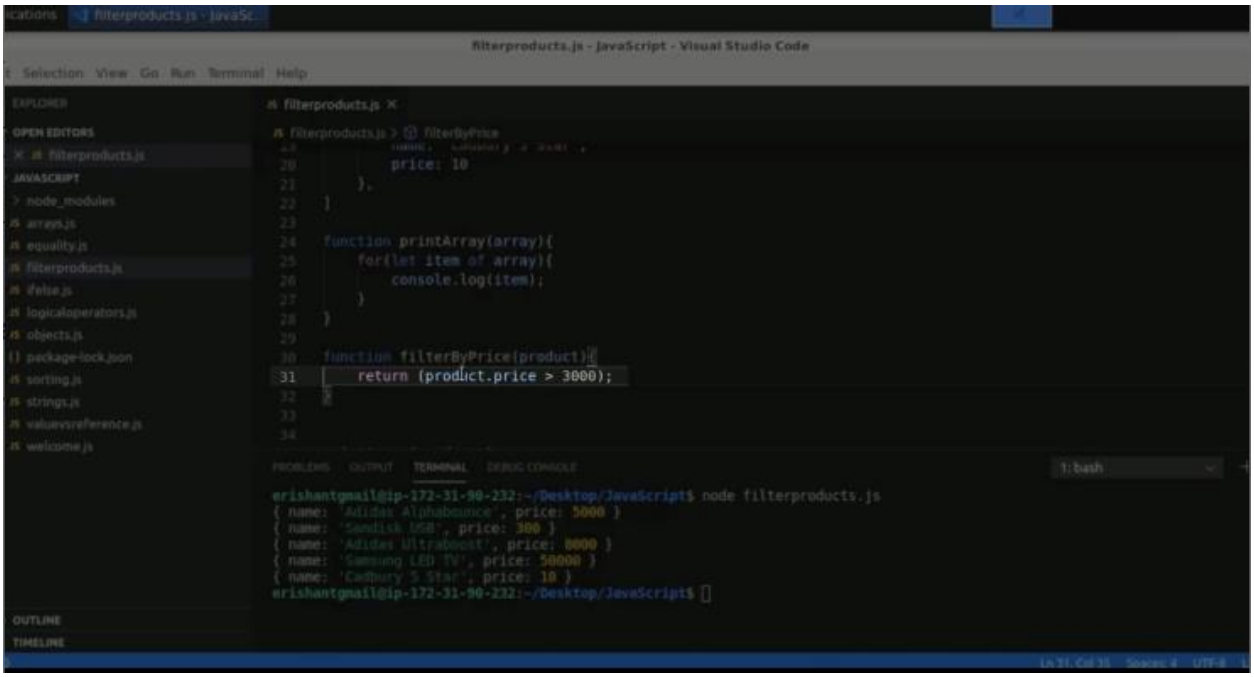




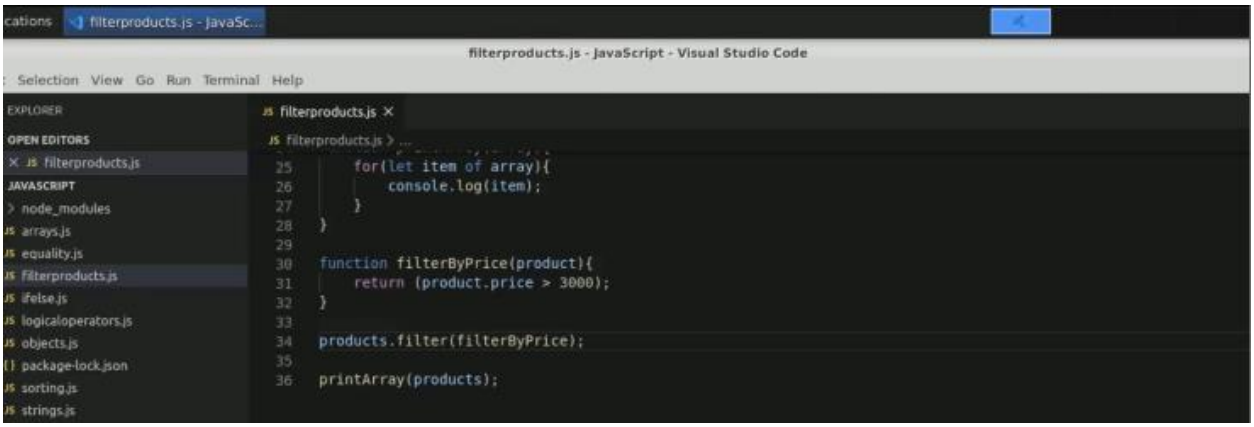
1.3 Define a function called **filterByPrice** inside the **filterproducts.js** file



1.4 Within the **filterByPrice** function, define a return function that takes one product as input and checks if the product's price is greater than a certain threshold

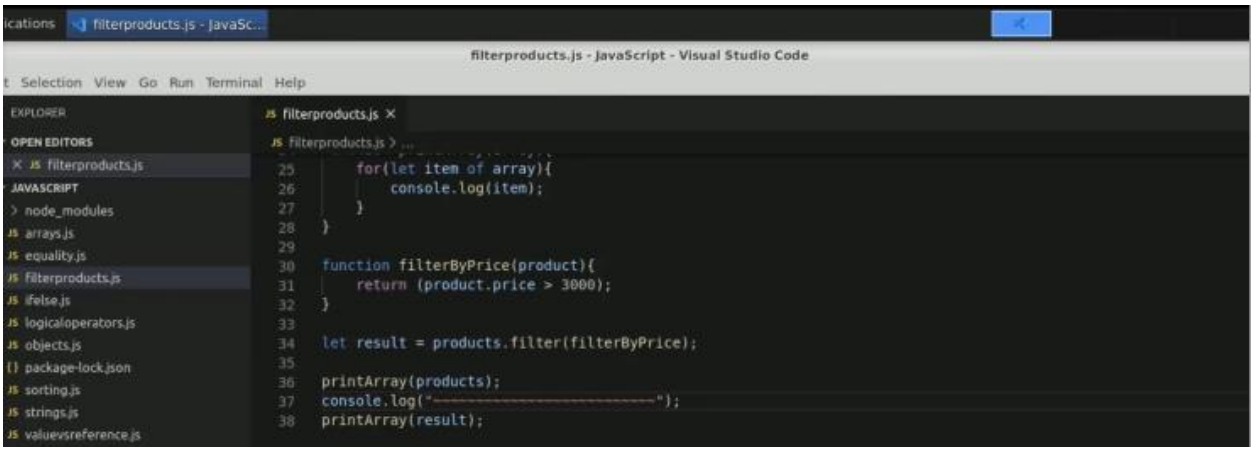


1.5 Use the **filter** function and pass the **filterByPrice** function as an input

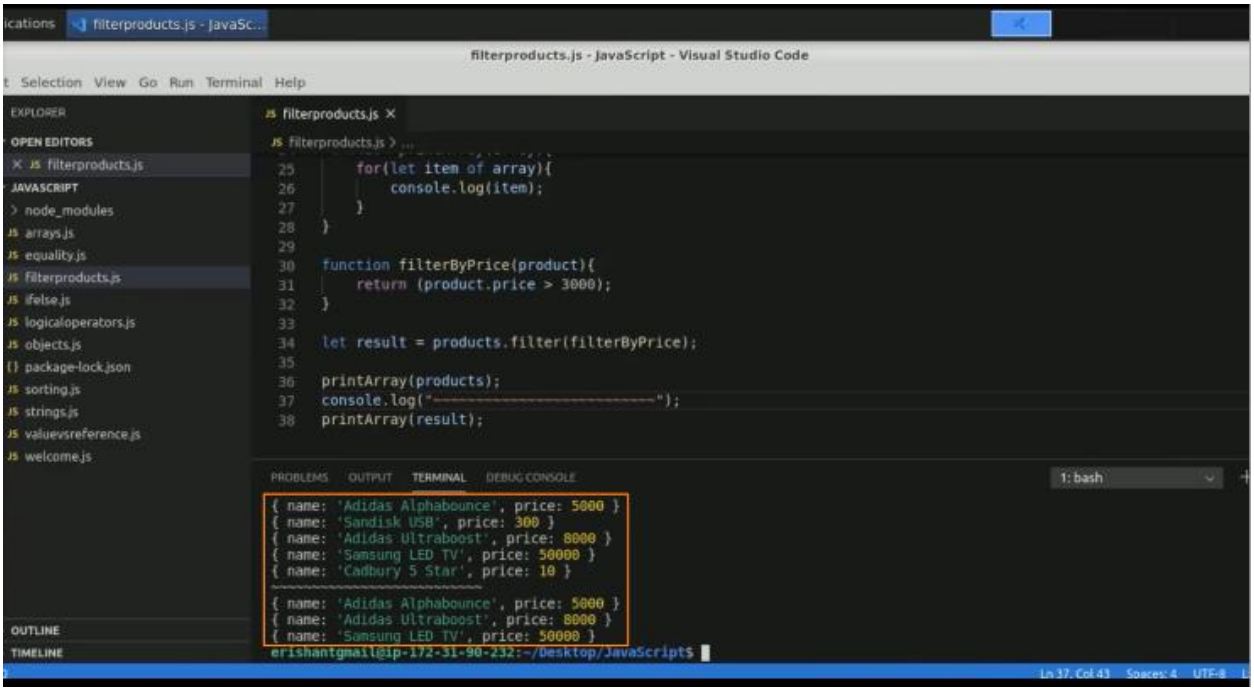


1.6 Save the filtered products in a variable such as **result**

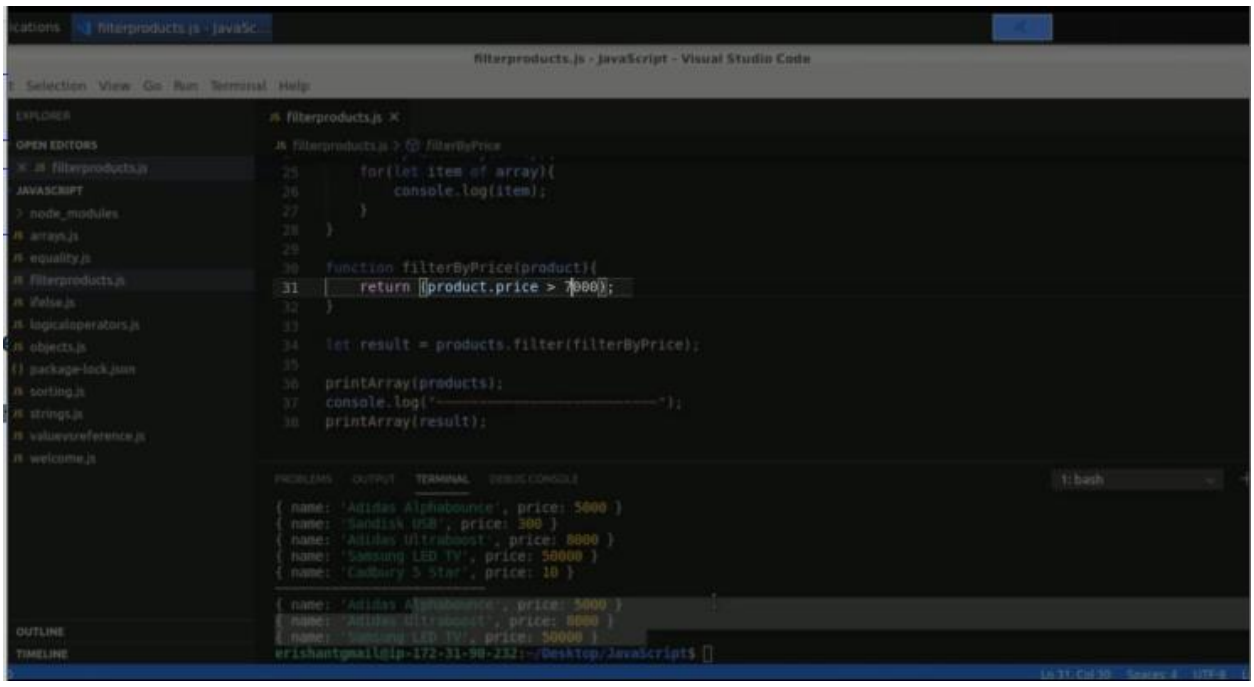
1.7 Write a statement to display the filtered results on the console. Add a log statement as a delimiter or separator for better visibility of the results



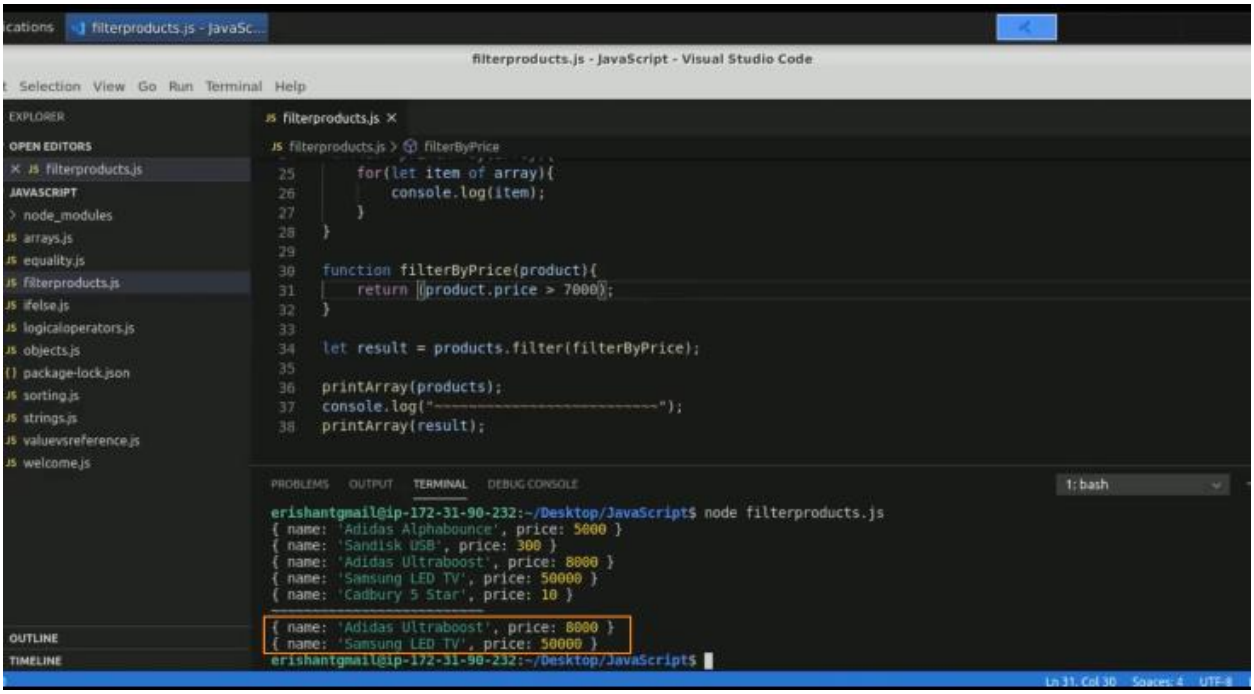
1.8 Run the program using the **node filterproducts.js** command to see the filtered results where the product price is greater than **3000**



1.9 Modify the filtering rule inside the **filterByPrice** function to **product.price > 7000**



1.10 Run the program using the command **node filterproducts.js** to see the updated filtered results where the product price is greater than **7000**



By following these steps, you have successfully created a function to filter an array of product objects based on specific criteria, allowing for more precise data manipulation and retrieval in your JavaScript applications.