

## 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

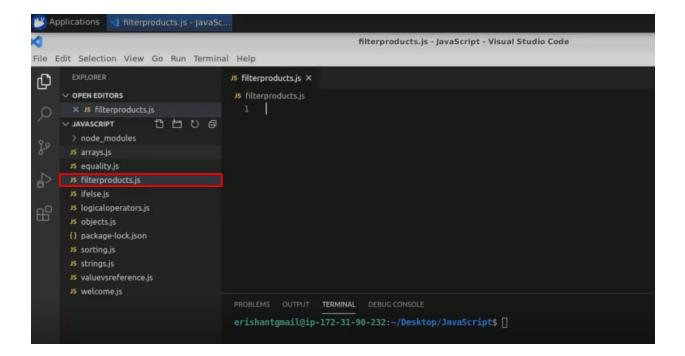
Prerequisites: None

## Steps to be followed:

1. Define the filter function

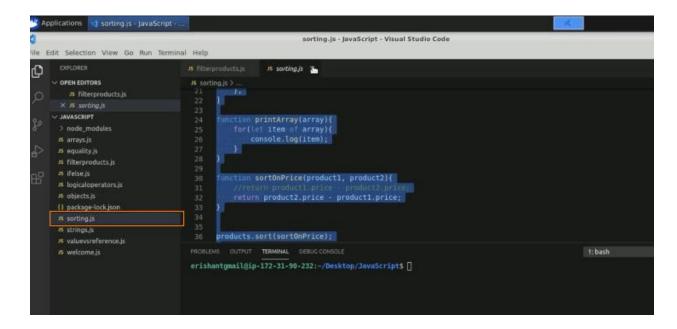
## **Step 1: Define the filter function**

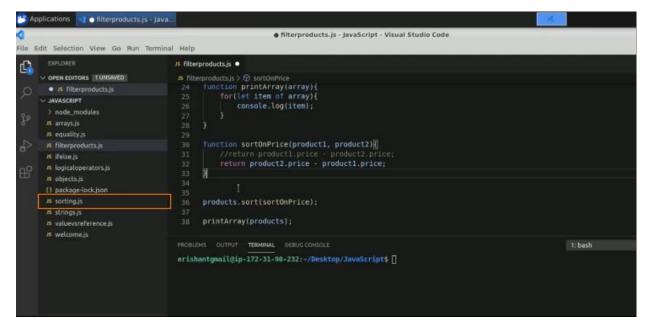
1.1 Open Visual Studio Code and create a new JavaScript file named filterproducts.js





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

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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

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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

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OPEN EDITORS
JAVASCRIPT
                                           console.log(item):
> node modules
                              30 function filterByPrice(product){
ifelse.js
JS logical operators is
                                   let result = products.filter(filterByPrice);
15 objects is
[] package-lock ison
                              strings is
s valuevsreference is
```



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

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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** 

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EXPLORER
                                                        # filterproducts.js ×
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                                                       25 | for(let item of array){
26 | console log(item);
27 | }
28 }
JAVASCRIPT
                                                                   function filterByPrice(product){
    return [[product.price > 7000]];
}
JS ifelse is
                                                           34 let result = products.filter(filterByPrice);
() package-lock.json
s sorting is
strings.js
                                                         erishantgmail@ip-I72-31-90-232:-/Desktop/JavaScript$ node filterproducts.js { name: 'Adidas Alphabounce', price: 5000 } { name: 'Sandisk USB', price: 300 } { name: 'Adidas Ultraboost', price: 8000 } { name: 'Sansung LED TV', price: 50000 } { name: 'Cadbury 5 Star', price: 10 }
                                                        { name: 'Adidas Ultraboost', price: 8000 } 
{ name: 'Samsung LED TV', price: 50000 } 
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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.