Lesson 6 Demo 1

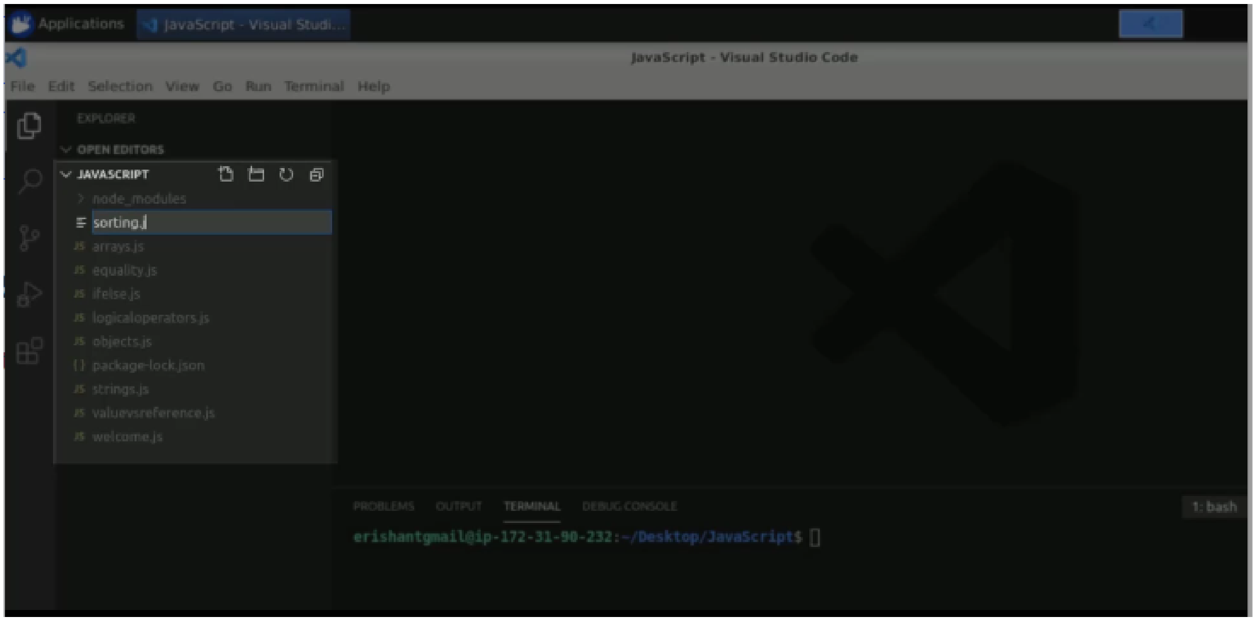
Creating Function to Sort the Product List Based on the Price

Objective: To create function to sort the product list based on the price

Prerequisites: None

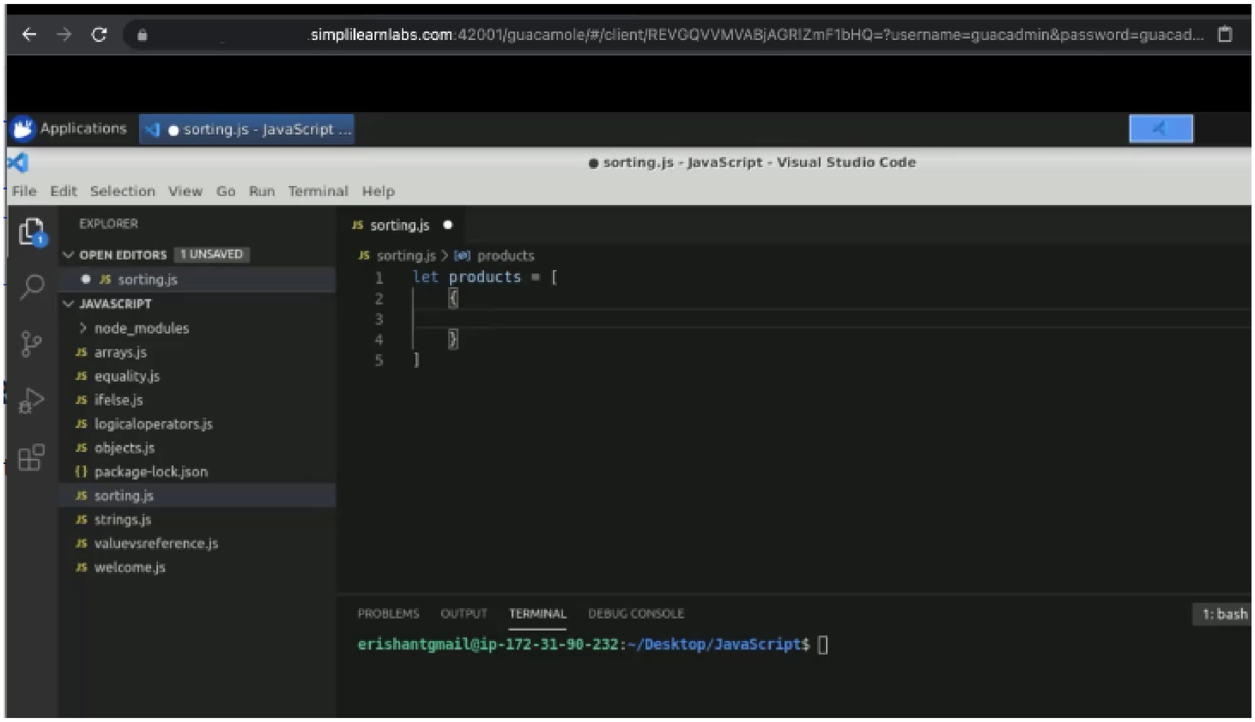
Steps to perform:

1. Create a file named ‘sorting.js’.



```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ 
```

2. Create a variable called ‘products’.

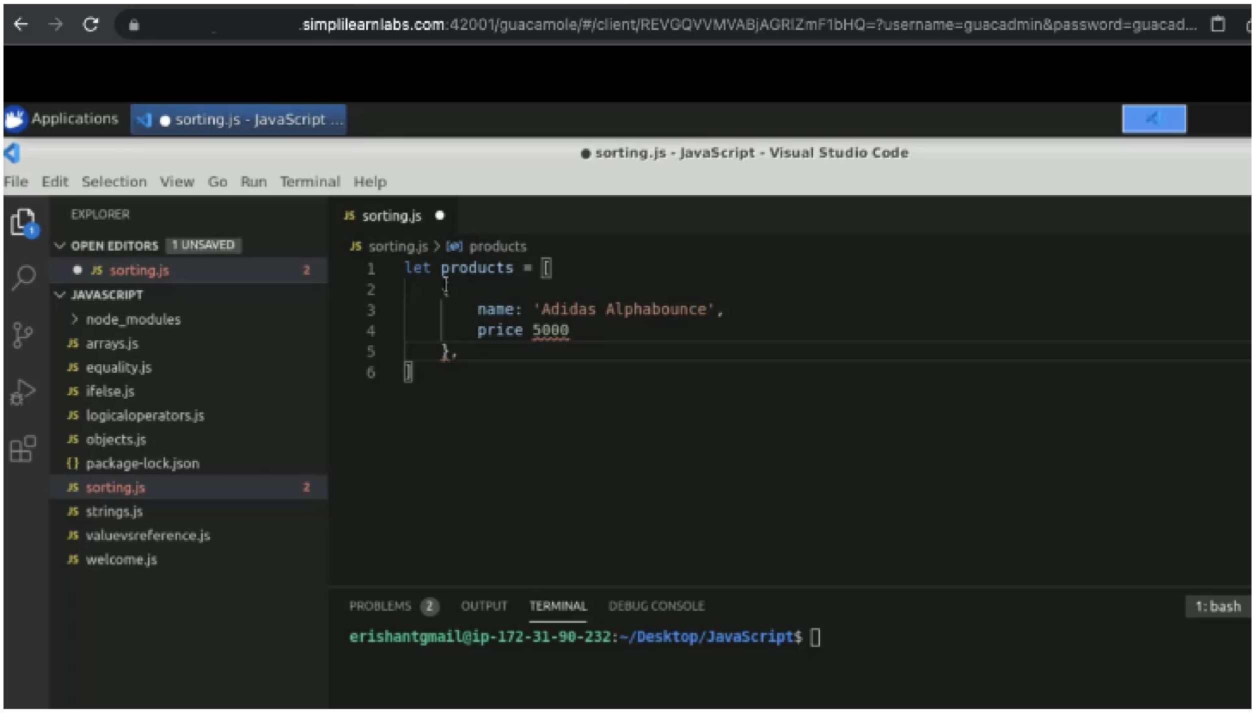


simplilearnlabs.com:42001/guacamole/#/client/REVGQVVMVABjAGRIZmF1bHQ=?username=guacadmin&password=guacad...
Applications
● sorting.js - JavaScript ...
● sorting.js - JavaScript - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
● sorting.js
JAVASCRIPT
node_modules
arrays.js
equality.js
ifelse.js
logicaloperators.js
objects.js
package-lock.json
sorting.js
strings.js
valuevsreference.js
welcome.js
sorting.js > products
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: bash

```
let products = [
    {

    }
]
```

```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

3. Create an object with a name and price.

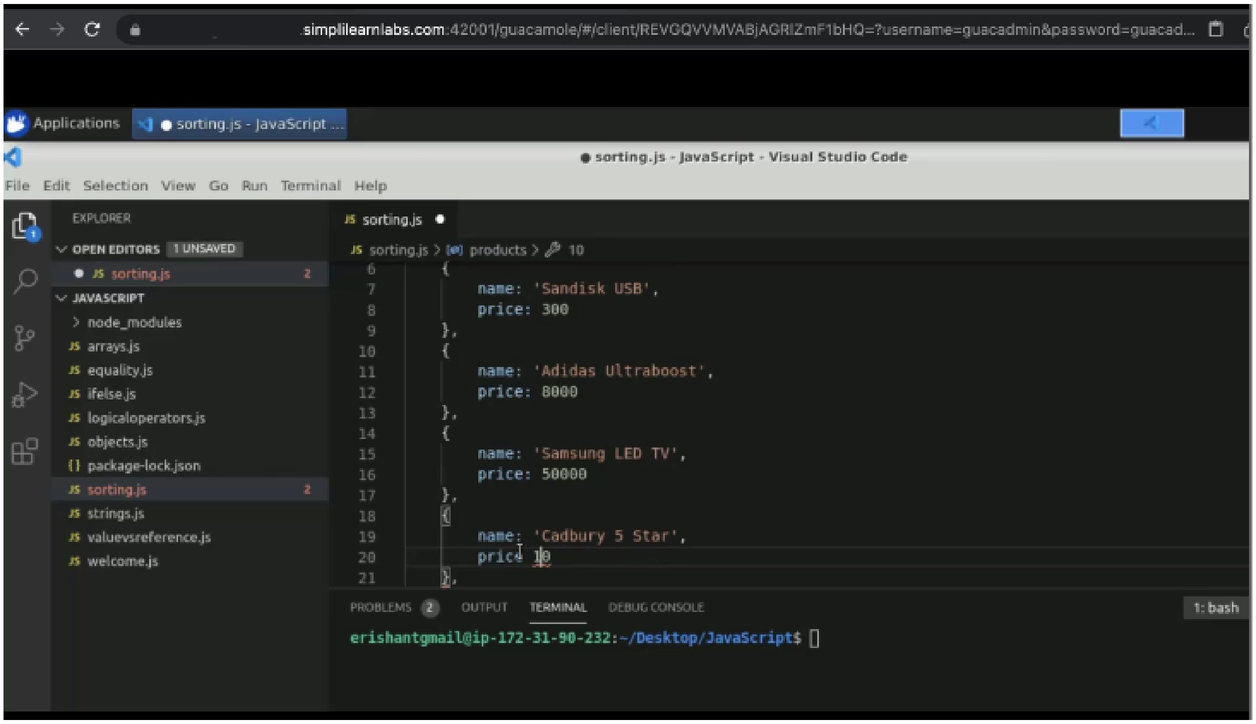


simplilearnlabs.com:42001/guacamole/#/client/REVGQVVMVABjAGRIZmF1bHQ=?username=guacadmin&password=guacad...
Applications
● sorting.js - JavaScript ...
● sorting.js - JavaScript - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
● sorting.js 2
JAVASCRIPT
node_modules
arrays.js
equality.js
ifelse.js
logicaloperators.js
objects.js
package-lock.json
sorting.js 2
strings.js
valuevsreference.js
welcome.js
sorting.js > products
PROBLEMS 2 OUTPUT TERMINAL DEBUG CONSOLE
1: bash

```
let products = [
    {
        name: 'Adidas Alphabounce',
        price 5000
    },
]
```

```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

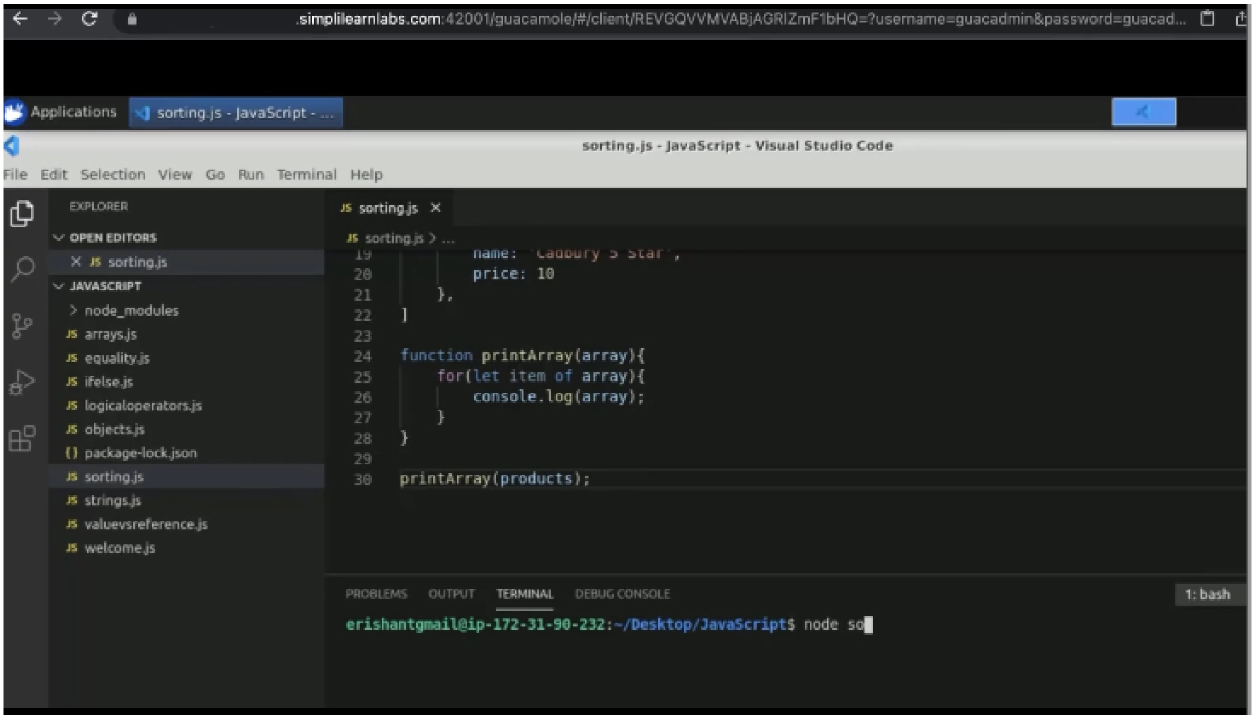
4. Create some more objects with different names and prices.


simplilearnlabs.com:42001/guacamole/#/client/REVGQVVMVABjAGRlZmF1bHQ=?username=guacadmin&password=guacad...
Applications
sorting.js - JavaScript ...
● sorting.js - JavaScript - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 UNSAVED
sorting.js
JAVASCRIPT
node_modules
arrays.js
equality.js
ifelse.js
logicaloperators.js
objects.js
package-lock.json
sorting.js
strings.js
valuevsreference.js
welcome.js
sorting.js > products > 10
PROBLEMS 2
OUTPUT
TERMINAL
DEBUG CONSOLE
1: bash

```
    {
        name: 'Sandisk USB',
        price: 300
    },
    {
        name: 'Adidas Ultraboost',
        price: 8000
    },
    {
        name: 'Samsung LED TV',
        price: 50000
    },
    {
        name: 'Cadbury 5 Star',
        price 10
    },
```

```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

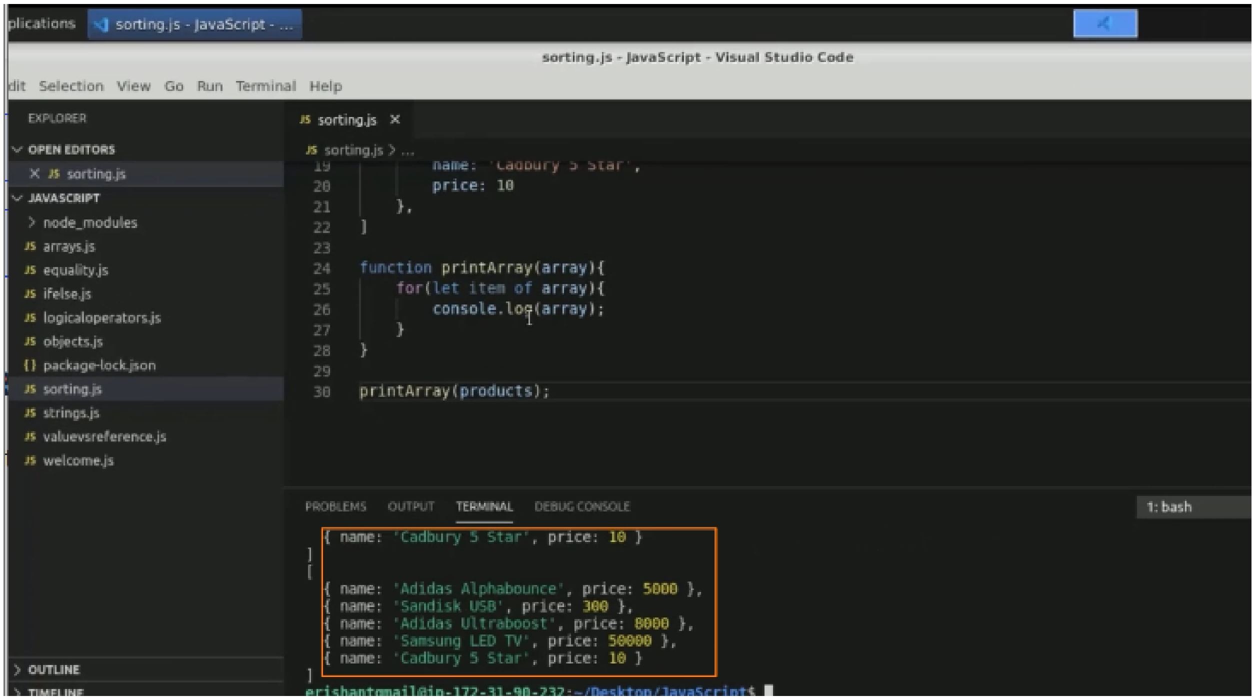
5. Print the array using the print array function using for loop.



```
        name: 'Cadbury 5 Star',
        price: 10
    },
]

function printArray(array){
    for(let item of array){
        console.log(array);
    }
}

printArray(products);
```

```
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node so
```

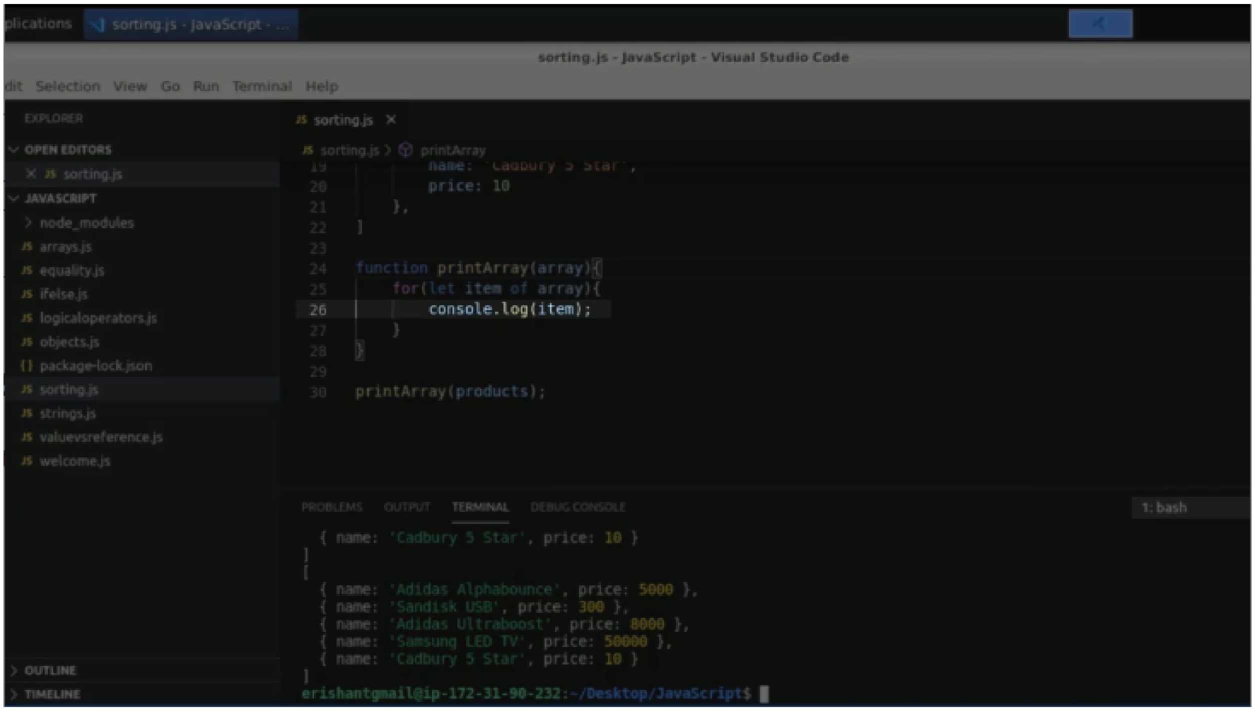
6. Run the program.



```
        name: 'Cadbury 5 Star',
        price: 10
    },
]

function printArray(array){
    for(let item of array){
        console.log(array);
    }
}

printArray(products);
```

```
  { name: 'Cadbury 5 Star', price: 10 }
]
[
  { name: 'Adidas Alphabounce', price: 5000 },
  { name: 'Sandisk USB', price: 300 },
  { name: 'Adidas Ultraboost', price: 8000 },
  { name: 'Samsung LED TV', price: 50000 },
  { name: 'Cadbury 5 Star', price: 10 }
]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

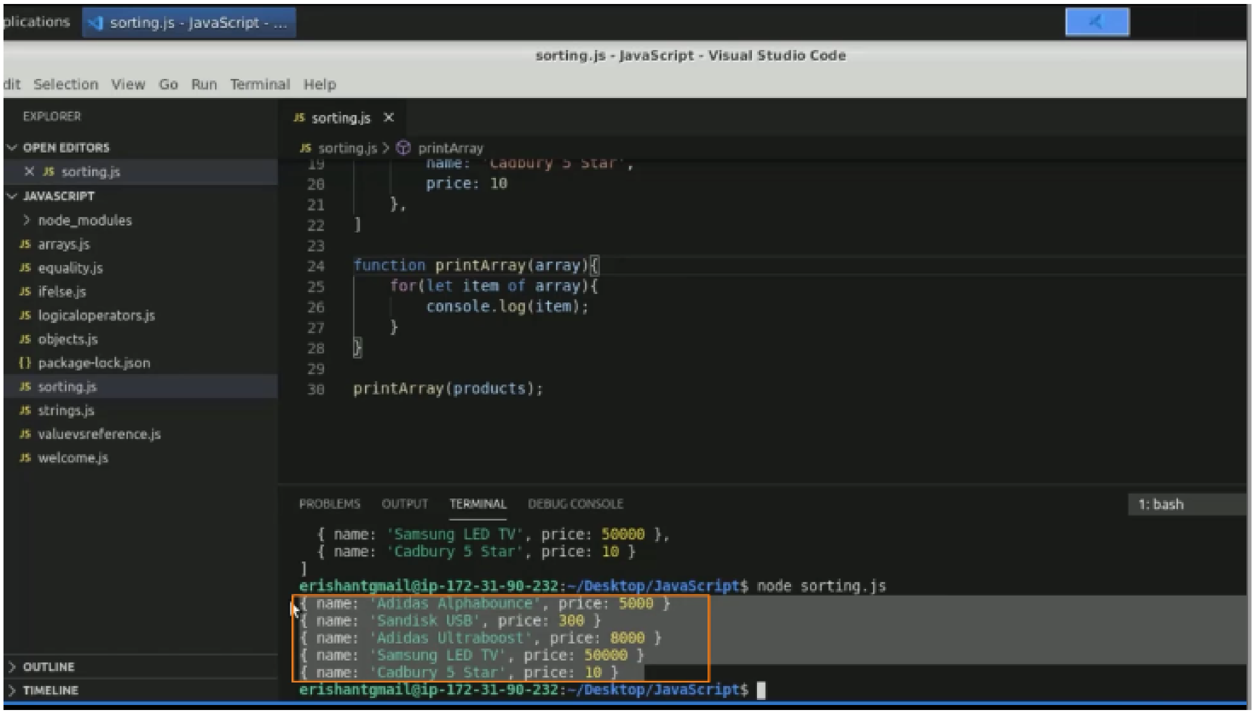
7. Use a function, to sort based on price.



```
        name: 'Cadbury 5 Star',
        price: 10
    },
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

printArray(products);
```

```
  { name: 'Cadbury 5 Star', price: 10 }
]
[
  { name: 'Adidas Alphabounce', price: 5000 },
  { name: 'Sandisk USB', price: 300 },
  { name: 'Adidas Ultraboost', price: 8000 },
  { name: 'Samsung LED TV', price: 50000 },
  { name: 'Cadbury 5 Star', price: 10 }
]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

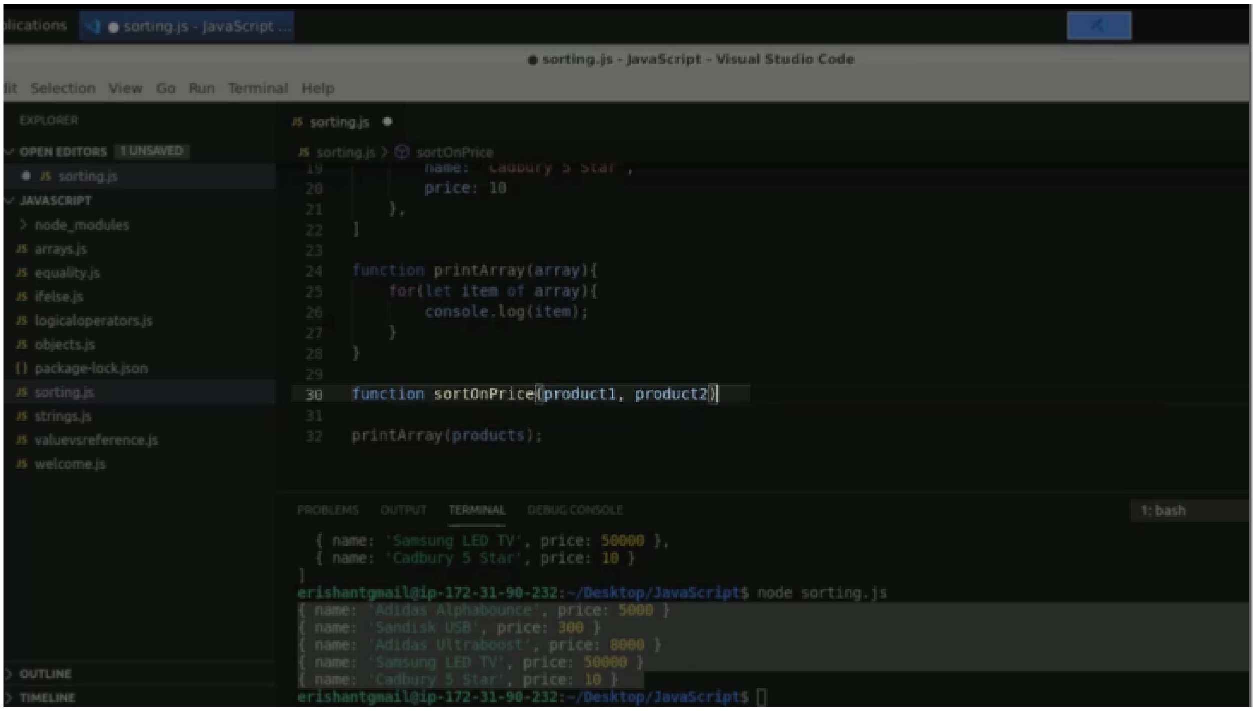
8. The product one is:



```
        name: 'Cadbury 5 Star',
        price: 10
    },
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

printArray(products);
```

```
  { name: 'Samsung LED TV', price: 50000 },
  { name: 'Cadbury 5 Star', price: 10 }
]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

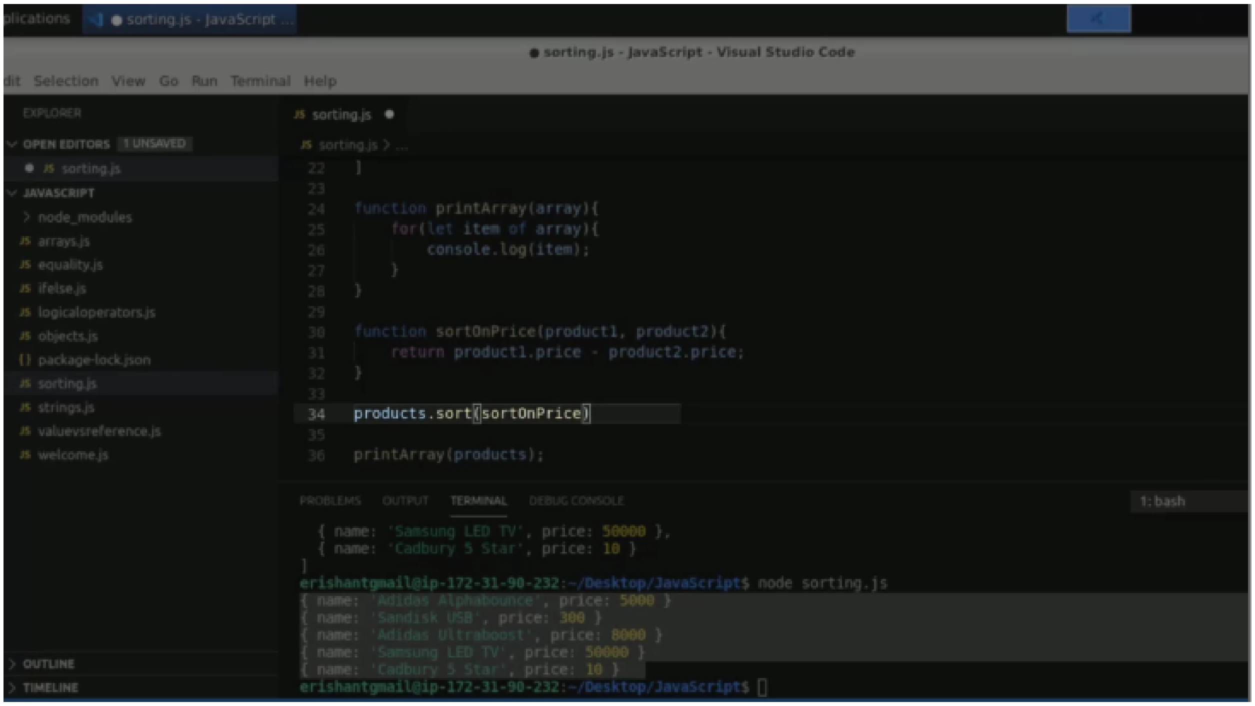
9. Pass a function ‘sortOnPrice’.



```
        name: 'Cadbury 5 Star',
        price: 10
    },
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

function sortOnPrice(product1, product2)

printArray(products);
```

```
  { name: 'Samsung LED TV', price: 50000 },
  { name: 'Cadbury 5 Star', price: 10 }
]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

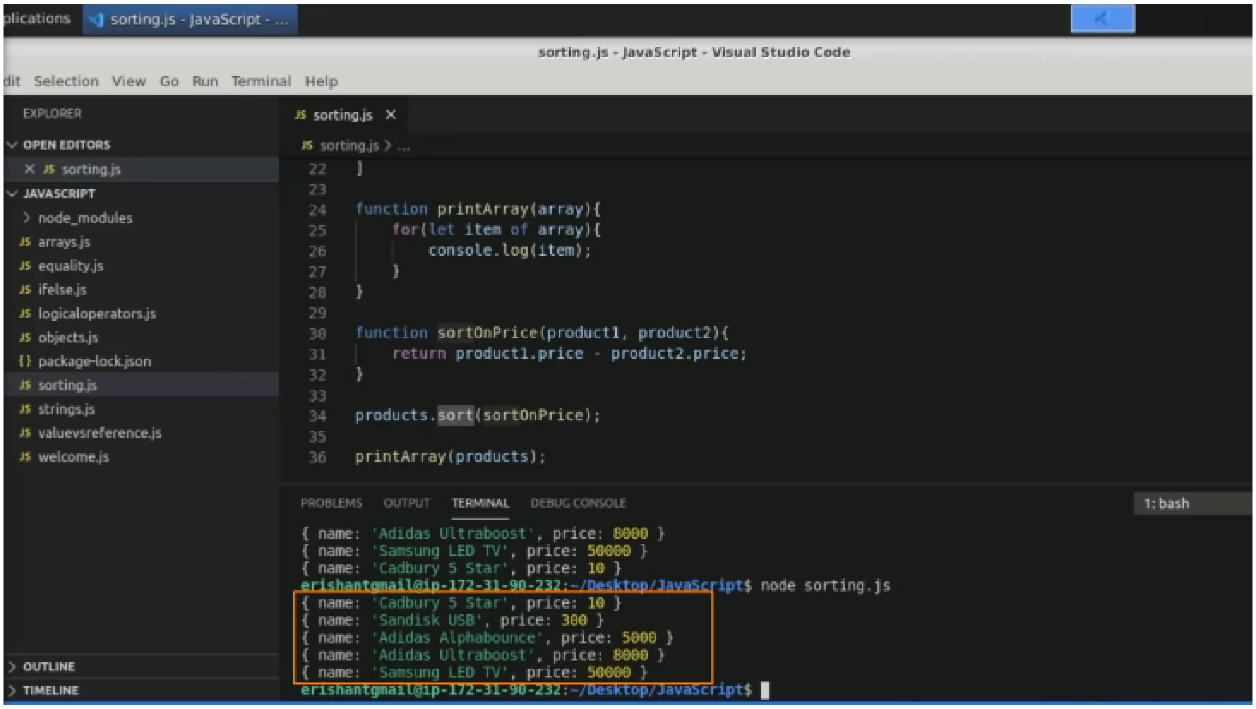
10. Perform sort operation on custom objects.



```
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

function sortOnPrice(product1, product2){
    return product1.price - product2.price;
}

products.sort(sortOnPrice)

printArray(products);
```

```
  { name: 'Samsung LED TV', price: 50000 },
  { name: 'Cadbury 5 Star', price: 10 }
]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

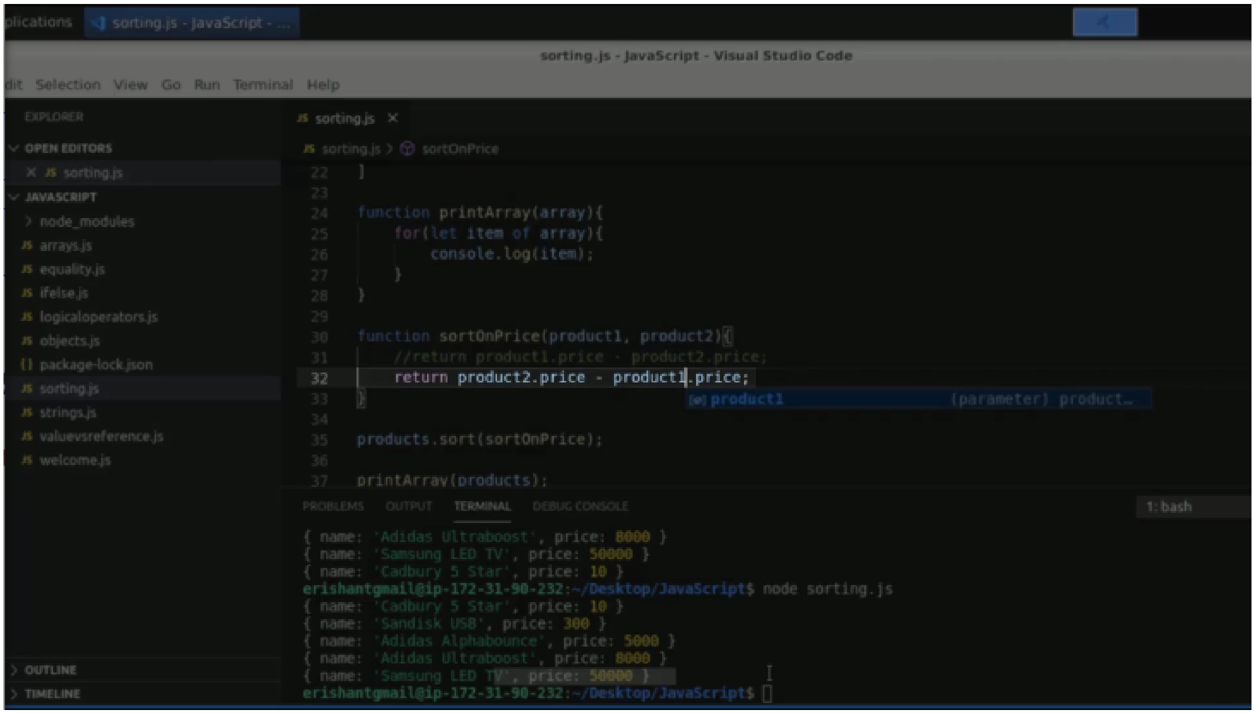
11. Execute the code.



```
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

function sortOnPrice(product1, product2){
    return product1.price - product2.price;
}

products.sort(sortOnPrice);

printArray(products);
```

```
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Cadbury 5 Star', price: 10 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

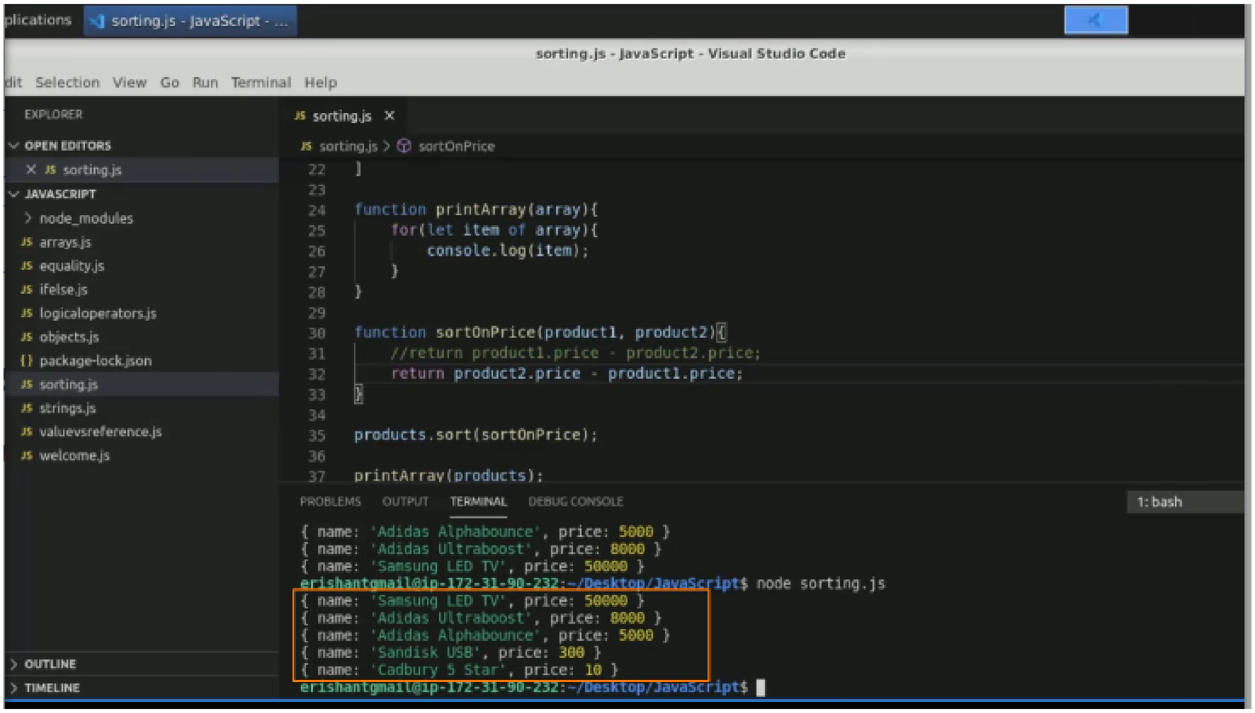
12. Update the ‘return’ statement.



```javascript
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

function sortOnPrice(product1, product2){
    //return product1.price - product2.price;
    return product2.price - product1.price;
}

products.sort(sortOnPrice);

printArray(products);
```

```
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Cadbury 5 Star', price: 10 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

13. Re-run the code.



```javascript
]

function printArray(array){
    for(let item of array){
        console.log(item);
    }
}

function sortOnPrice(product1, product2){
    //return product1.price - product2.price;
    return product2.price - product1.price;
}

products.sort(sortOnPrice);

printArray(products);
```

```
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Samsung LED TV', price: 50000 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node sorting.js
{ name: 'Samsung LED TV', price: 50000 }
{ name: 'Adidas Ultraboost', price: 8000 }
{ name: 'Adidas Alphabounce', price: 5000 }
{ name: 'Sandisk USB', price: 300 }
{ name: 'Cadbury 5 Star', price: 10 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```