

Lesson 05 Demo 01

Creating a Shopping Cart with a List of Products

Objective: To demonstrate how to create a shopping cart using JavaScript arrays, add dishes to the cart, and display the contents of the cart

Tools Required: Visual Studio Code and Node.js

Prerequisites: None

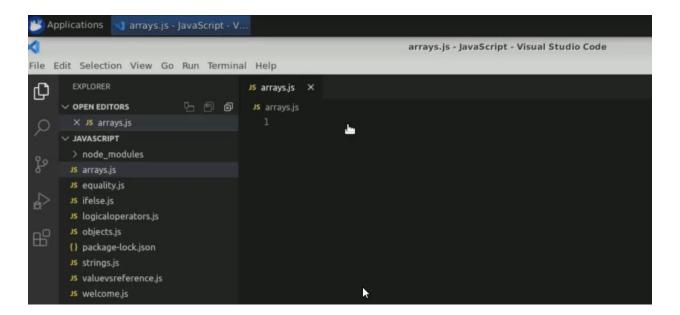
Steps to be followed:

1. Create a menu and shopping cart

2. Implement logic to add dishes to the cart

Step 1: Create a menu and shopping cart

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





1.2 Create a **menu** object with dishes and their corresponding prices

```
Js arrays.js •

Js arrays.js > ...

1  let menu = {
    burger: 100,
    noodles: 200,
    pizza: 300,
    fries: 50,
    cola: 80
    7  }
```

1.3 Declare an empty array called a cart to store the selected items

```
Js arrays.js > [e] cart

1    let menu = {
2        burger: 100,
3        noodles: 200,
4        pizza: 300,
5        fries: 50,
6        cola: 80
7    }
8
9    let cart = []
```



1.4 Log the details and length of the cart using console.log()



Step 2: Implement logic to add dishes to the cart

2.1 Open the terminal and execute the **npm i prompt-sync** command to install the **prompt-sync** module

```
JS arrays.js X
JS arrays.js > ...
     let menu = {
          burger: 100,
          noodles: 200,
          pizza: 300,
          fries: 50,
          cola: 80
      let cart = []
      console.log("Cart["+cart.length+"] Details: "+cart);
          K
         OUTPUT TERMINAL DEBUG CONSOLE
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node arrays.js
Cart[0] Cetails:
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node arrays.js
Cart[0] Details:
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ npm i prompt-sync
                   ] / rollbackFailedOptional: verb npm-session cf1529998100b1d5
```



2.2 Import the **prompt-sync** module into your JavaScript file using the **require** function. Assign the result of the **require** function to a variable, such as **prompt**



2.3 Use an infinite loop to continuously prompt the user for dish names. Create a dish object with the name and price retrieved from the menu. Add the dish object to the cart array using the **push()** method

The dish object will be appended as a new element at the end of the array.



2.4 Run the program and add dishes to the cart from the console

```
JS arrays.js X
JS arrays.js > ...
            let dish = {
               name: dishName,
                price: menu[dishName]
            cart.push(dish);
       console.log(("Final Cart["+cart.length+"] Details: "+cart));
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                             1: bash
Enter Your Choice:pizza
Your choice: pizza erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node arrays.js
Intial Cart[0] Details:
Enter Dish Name:pizza
Enter Dish Name: fries
Enter Dish Name:cola
Enter Dish Name:quit
Final Cart[3] Details: [object Object],[object Object],[object Object]
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

The user input on the console included three dishes: **pizza**, **fries**, and **cola**, which were successfully added to the cart.



2.5 Use a **for-in loop** to iterate through the **cart's** values. Log the name and price of each dish in the cart using **console.log()**



2.6 Rerun the program and observe that both the dish name and price are printed on the console

```
JS arrays.js X
JS arrays.js > ...
           let dish = {
               name: dishName,
               price: menu[dishName],
           cart.push(dish);
       console.log("Final Cart["+cart.length+"] Details: "+cart);
      for(let dish of cart){
           console.log(dish);
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Intial Cart[0] Details:
Enter Dish Name:pizza
Enter Dish Name:burger
Enter Dish Name:cola
Enter Dish Name:quit
Final Cart[3] Details: [object Object],[object Object],[object Object]
{ name: 'pizza', price: 300 }
{ name: 'burger', price: 100 }
{ name: 'cola', price: 80 }
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
```

By following the above steps, you have successfully demonstrated how to create a shopping cart, add dishes to the cart, and display the contents using JavaScript arrays.