Course Code: CL-1000	Course: Introduction to Information and Communication Technology (IICT)
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Instructions:

Task: Create a Simple Shopping List App

Objective: Build a simple shopping list application using JavaScript that allows users to manage their shopping items.

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1. **Set Up Your Project:**
   - Create a new folder on your computer named `ShoppingList`.
   - Inside this folder, create two files:
     1. `index.html`
     2. `script.js`
2. **HTML Structure:**
   - Open `index.html` in your code editor and write the following basic HTML structure:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Shopping List</title>
</head>
<body>
    <h1>Shopping List</h1>
    <script src="script.js"></script>
</body>
</html>
```

3. **Step 1: Initialize the Shopping List Array**
   - In your script.js, create an empty array named shoppingList to hold your items:

var shoppingList = [ ];

4. **Step 2: Create the addItem Function**
   - o Define a function named addItem that takes one parameter (the item to be added).
   - o Inside the function, push the item into the shoppingList array.
   - o Log a message confirming the addition of the item.
   - o
5. **Step 3: Create the removeItem Function**
   - o Define a function named removeItem that takes an index as a parameter.
   - o Inside the function, check if the index is valid (between 0 and the length of the shoppingList array).
   - o If valid, remove the item using splice and log a confirmation message. If invalid, log an error message.
6. **Step 4: Create the displayItems Function**
   - o Define a function named displayItems that does not take any parameters.
   - o Use a loop to iterate through the shoppingList array and log each item along with its index.
7. **Step 5: Create the clearList Function**
   - o Define a function named clearList that resets the shoppingList array to an empty array.
   - o Log a message confirming that the list has been cleared.
8. **Step 6: Test Your App**
   - o Add some items to your shopping list using the addItem function.
   - o Display the current items in your shopping list using the displayItems function.
   - o Remove an item using the removeItem function and display the list again.
   - o Clear the shopping list using the clearList function and confirm that the list is empty.
9. **Example Usage:**
   - o Include the following example calls in your shoppingList.js file to test your functions:

```javascript
Copy code
addItem("Apples");
addItem("Bread");
addItem("Milk");
displayItems();
removeItem(1); // Remove Bread
displayItems();
clearList();
```