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Course, Year, & Section: BSIT 3-1N

### Activity #5 - Array

1. Write a JavaScript program called menuSelector that allows users to select a fruit from a menu. The program should utilize an array to store the available fruits and implement a do-while loop to allow users to make selections until they choose to exit.

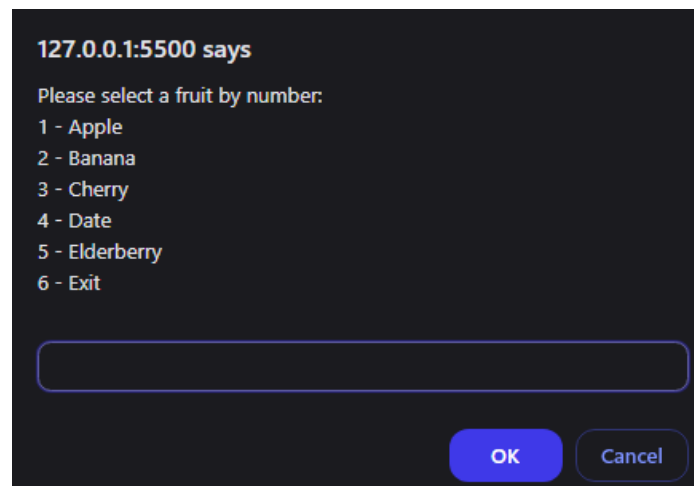
#### Requirements

1. **Create an Array:** Define an array called fruits that contains at least five different fruit names, such as:
  - "Apple"
  - "Banana"
  - "Cherry"
  - "Date"
  - "Elderberry"

#### Source Code:

```
1  const fruits = ["Apple", "Banana", "Cherry", "Date", "Elderberry"];
```

#### Output:



127.0.0.1:5500 says

Please select a fruit by number:

- 1 - Apple
- 2 - Banana
- 3 - Cherry
- 4 - Date
- 5 - Elderberry
- 6 - Exit

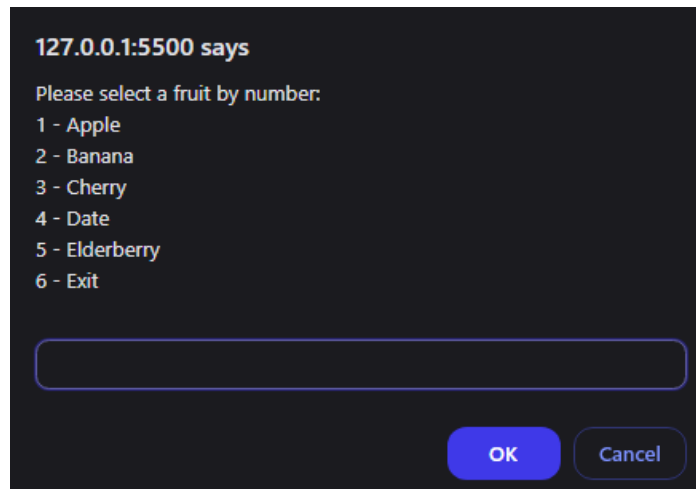
OK Cancel

2. **Display Menu:** Use a do-while loop to display a menu to the user with the following options:
- Select a fruit by its corresponding number (1 to 5).
  - Exit the program.

**Source Code:**

```
1  do {
2
3      let userInput = prompt(
4          "Please select a fruit by number:\n" +
5          "1 - Apple\n" +
6          "2 - Banana\n" +
7          "3 - Cherry\n" +
8          "4 - Date\n" +
9          "5 - Elderberry\n" +
10         "6 - Exit\n"
11     );
12
13     userInput = parseInt(userInput);
14
15     switch (userInput) {
16         case 1:
17         case 2:
18         case 3:
19         case 4:
20         case 5:
21             alert(`You selected: ${fruits[userInput - 1]}`);
22             break;
23         case 6:
24             alert("Exiting the program. Thank you!");
25             exitProgram = true;
26             break;
27         default:
28             alert("Invalid selection. Please enter a number between 1 and 6.");
29             break;
30     }
31
32     if (!exitProgram) {
33         let continueChoice = prompt("Do you want to continue? (yes/no)").toLowerCase();
34         if (continueChoice === "no") {
35             exitProgram = true;
36             alert("Thank you for using the menu.");
37         }
38     }
39
40 } while (!exitProgram);
```

## Output:

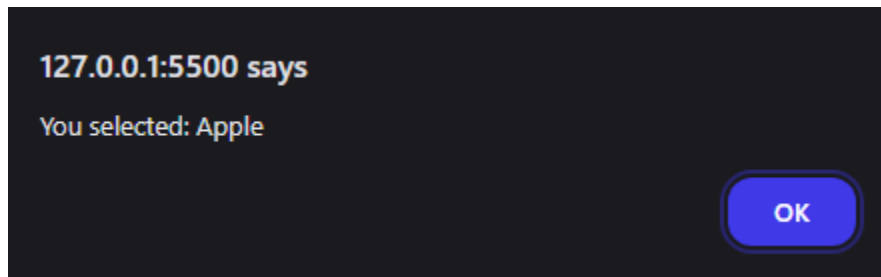


3. **Use Switch Statement:** Implement a switch statement to handle the user's selection and display a message indicating the selected fruit.

## Source Code:

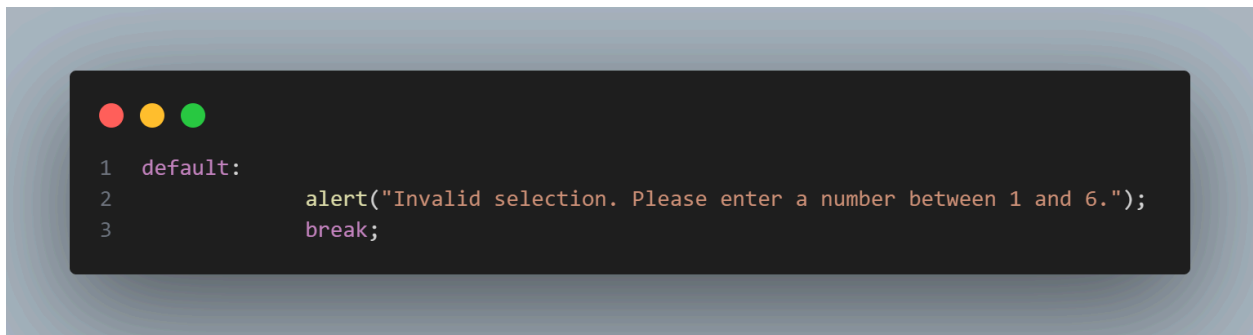
```
1  switch (userInput) {
2      case 1:
3      case 2:
4      case 3:
5      case 4:
6      case 5:
7          alert(`You selected: ${fruits[userInput - 1]}`);
8          break;
9      case 6:
10         alert("Exiting the program. Thank you!");
11         exitProgram = true;
12         break;
13     default:
14         alert("Invalid selection. Please enter a number between 1 and 6.");
15         break;
16 }
```

Output:

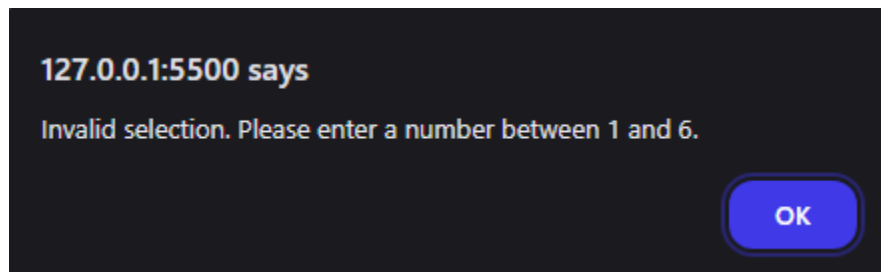


4. **Error Handling:** If the user selects an invalid option (e.g., a number not in the range or a non-numeric input), display an error message.

Source Code:



Output:



5. **Continue or Exit:** After processing the selection, prompt the user to ask if they want to continue. If they respond with "no," exit the loop and thank them for using the menu.

#### Source Code:

```
1  if (!exitProgram) {  
2      let continueChoice = prompt("Do you want to continue? (yes/no)").toLowerCase();  
3      if (continueChoice === "no") {  
4          exitProgram = true;  
5          alert("Thank you for using the menu.");  
6      }  
7  }
```

#### Output:

127.0.0.1:5500 says

Do you want to continue? (yes/no)

yes

OK Cancel

127.0.0.1:5500 says

Thank you for using the menu.

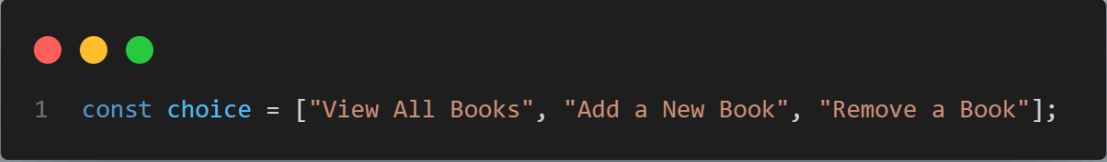
OK

2. Write a JavaScript program called libraryMenu that allows users to manage a library of books. The program should use an array to store book titles and implement a do-while loop to allow users to select options for viewing, adding, or removing books until they choose to exit.

### Requirements

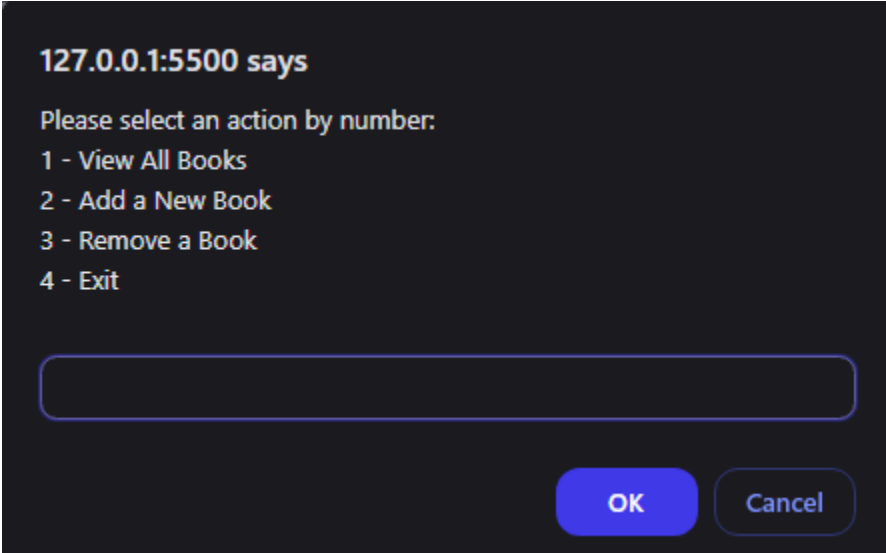
1. **Create an Array:** Define an array called books that contains at least five different book titles (e.g., "1984", "To Kill a Mockingbird", "The Great Gatsby", "Moby Dick", "Pride and Prejudice").

### Source Code:



```
1  const choice = ["View All Books", "Add a New Book", "Remove a Book"];
```

### Output:



127.0.0.1:5500 says

Please select an action by number:

- 1 - View All Books
- 2 - Add a New Book
- 3 - Remove a Book
- 4 - Exit

OK Cancel

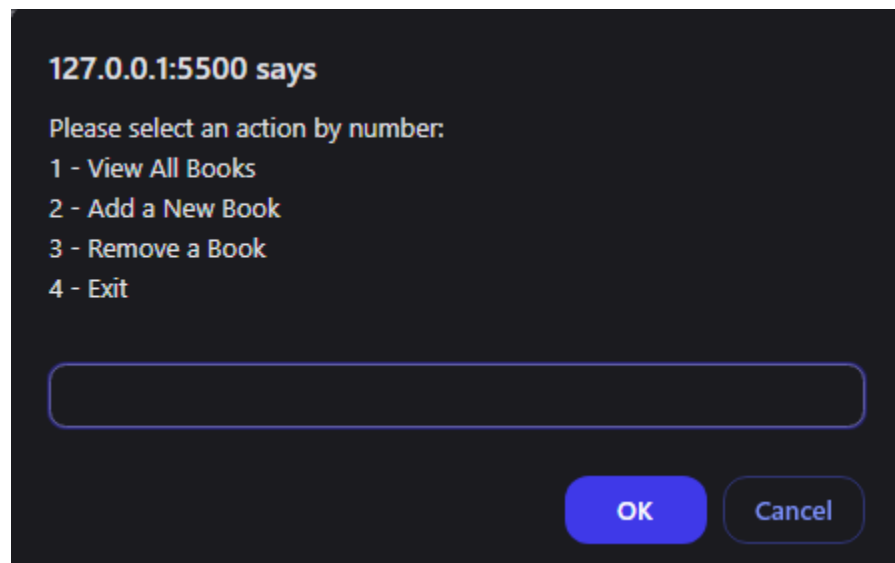
2. **Display Menu:** Use a do-while loop to display a menu with the following options:

- View all books
- Add a new book
- Remove a book
- Exit the program

### Source Code:

```
1  do {
2
3      let userInput = prompt(
4          "Please select an action by number:\n" +
5          "1 - View All Books\n" +
6          "2 - Add a New Book\n" +
7          "3 - Remove a Book\n" +
8          "4 - Exit\n"
9      );
10
11     userInput = parseInt(userInput);
12
13     switch (userInput) {
14         case 1:
15             alert("Here are the available books: \n\n" + books.join("\n"));
16             break;
17         case 2:
18             addBook(books);
19             break;
20         case 3:
21             removeBook(books);
22             break;
23         case 4:
24             alert("Exiting the program. Thank you!");
25             exitProgram = true;
26             break;
27         default:
28             alert("Invalid selection. Please enter a number between 1 and 4.");
29             break;
30     }
31
32     if (!exitProgram) {
33         let continueChoice = prompt("Do you want to continue? (yes/no)").toLowerCase();
34         if (continueChoice === "no") {
35             exitProgram = true;
36             alert("Thank you for using the menu.");
37         }
38     }
39
40 } while (!exitProgram);
```

Output:



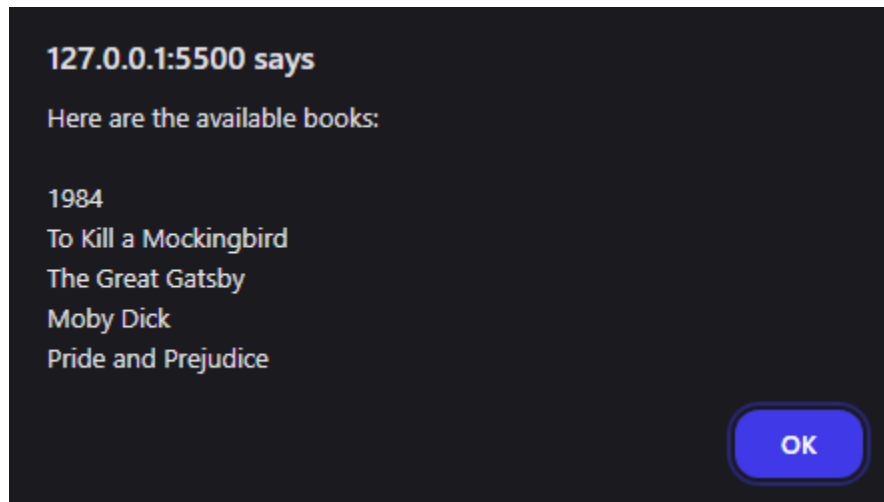
3. **Use Switch Statement:** Implement a switch statement to handle the user's selection and perform the corresponding action.

Source Code:

```
1  switch (userInput) {
2      case 1:
3          alert("Here are the available books: \n\n" + books.join("\n"));
4          break;
5      case 2:
6          addBook(books);
7          break;
8      case 3:
9          removeBook(books);
10         break;
11     case 4:
12         alert("Exiting the program. Thank you!");
13         exitProgram = true;
14         break;
15     default:
16         alert("Invalid selection. Please enter a number between 1 and 4.");
17         break;
18 }
```

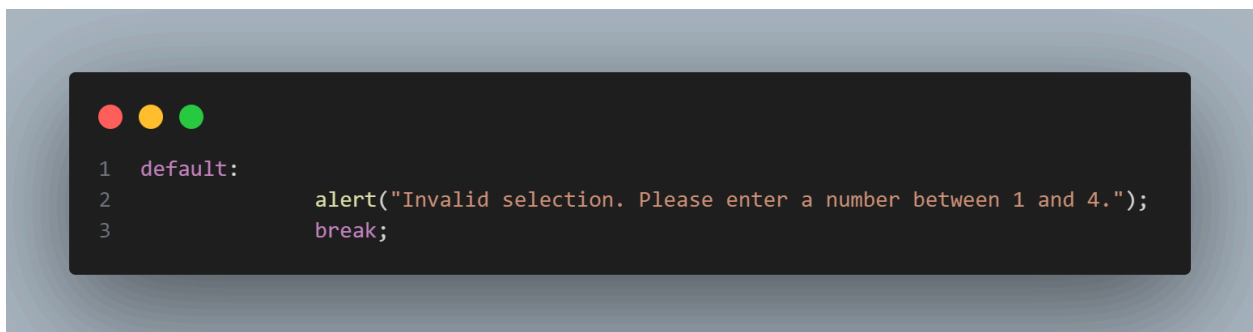


Output:

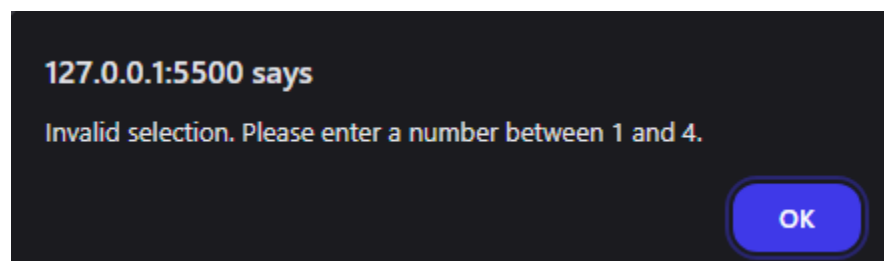


4. **Error Handling:** If the user tries to remove a book that doesn't exist, display an error message.

Source Code:



Output:

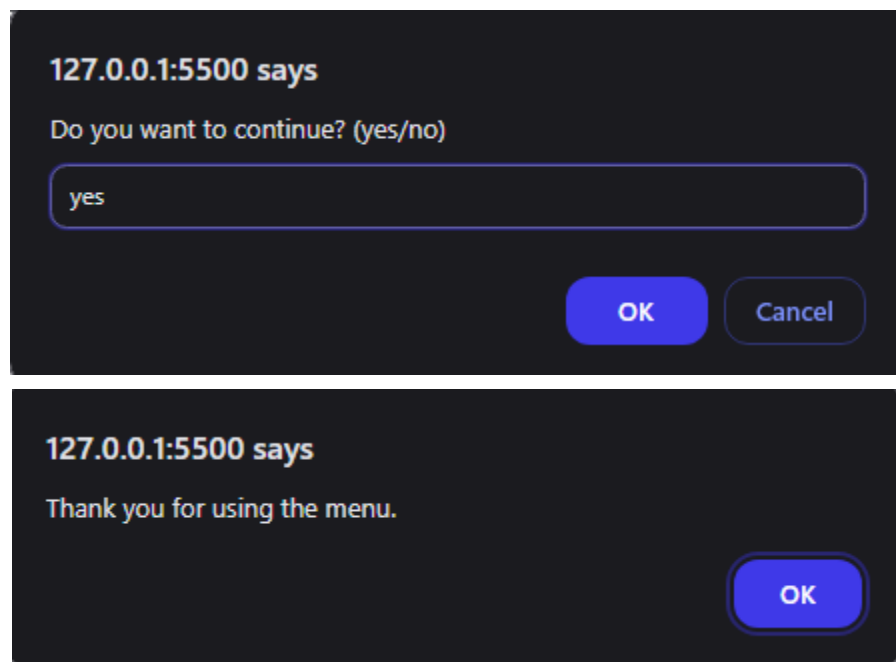


5. **Continue or Exit:** After processing the selection, ask the user if they want to continue. If they answer "no," exit the loop and thank them for using the library.

**Source Code:**

```
1  if (!exitProgram) {  
2      let continueChoice = prompt("Do you want to continue? (yes/no)").toLowerCase();  
3      if (continueChoice === "no") {  
4          exitProgram = true;  
5          alert("Thank you for using the menu.");  
6      }  
7  }
```

**Output:**



The first screenshot shows a dark-themed browser window with the title "127.0.0.1:5500 says". The main content area displays the text "Do you want to continue? (yes/no)" above a text input field containing the word "yes". At the bottom right, there are two buttons: "OK" and "Cancel".

The second screenshot shows the same browser window after the "OK" button was clicked. The main content area now displays the text "Thank you for using the menu." and there is a single "OK" button at the bottom right.