

## **Assignment 1 Report**

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INFO 653 – Back-end Development

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## I. Introduction

This report explains the development of a Coffee Ordering System using JavaScript and Node.js.

The program allows users to select a coffee type and get its price. It includes conditional statements, loops, error handling, and user input handling using the readline module.

## II. Program Overview

The program consists of the following main functionalities:

1. **User Input Handling:** Uses readline to take user input in a command-line interface.
2. **Conditional Statements:** Uses a switch statement to determine coffee prices.
3. **Loops:** The program continuously runs until the user exits.
4. **Error Handling:** Ensures valid coffee type selection and handles invalid inputs.

## III. Code Explanation

### a. Setting Up

- The program imports the readline module to handle user input.
- It creates an interface for reading user commands in the terminal.
- The coffee menu is stored in an object, allowing users to choose by name or number.

### b. User Input

- The program imports the readline module to handle user input.
- It creates an interface for reading user commands in the terminal.
- The coffee menu is stored in an object, allowing users to choose by name or number.

### c. Program Logic

- A switch statement determines the price based on the coffee type.

- The program uses functions to get coffee details, matching both names and numbers.
- If the user enters an invalid input, an error message appears, and they are prompted to try again.

#### d. Error Handling

- If the user enters an invalid coffee type (e.g., "10"), an error message appears:  
"Invalid selection: '10'. Please enter a valid coffee number or name."
  - The program loops back, allowing the user to retry instead of exiting immediately.

## IV. Program Output

```
Available Coffee Types:
1. Espresso ($1.99)
2. Latte ($2.99)
3. Cappuccino ($3.49)
4. Americano ($2.49)
5. Exit
Enter the number or name of the coffee you want, or type exit: 1
The price for a Espresso is $1.99.

Available Coffee Types:
1. Espresso ($1.99)
2. Latte ($2.99)
3. Cappuccino ($3.49)
4. Americano ($2.49)
5. Exit
Enter the number or name of the coffee you want, or type exit: espresso
The price for a Espresso is $1.99.
```

Available Coffee Types:

1. Espresso (\$1.99)
2. Latte (\$2.99)
3. Cappuccino (\$3.49)
4. Americano (\$2.49)
5. Exit

Enter the number or name of the coffee you want, or type exit: 5

Invalid selection: '5'. Please enter a valid coffee number or name.

Available Coffee Types:

1. Espresso (\$1.99)
2. Latte (\$2.99)
3. Cappuccino (\$3.49)
4. Americano (\$2.49)
5. Exit

Enter the number or name of the coffee you want, or type exit: exit

You ordered:

1. Espresso
2. Espresso

Thank you for using our coffee ordering system!

PS C:\Users\Tk custom\OneDrive - itc.edu.kh\Desktop\Back-end> █