A

PROJECT REPORT ON

"CAFÉ MANAGEMENT SYSTEM"

SUBMITTED BY:

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SUBJECT:

C++ PROGRAMMING

Under the guidance of

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INTRODUCTION

A Cafe Management System is an essential software tool designed to handle day-to-day operations in a cafe. This system helps in managing orders, calculating the total bill, and keeping track of different menu items. This C++ project simulates a simple Cafe Management System that allows users to view the menu, place an order, and get the total bill. The system is user-friendly and provides a straightforward interface for taking orders.

CODE

```cpp
#include <iostream>
#include <string>
using namespace std;

class Cafe {
private:
    int coffeeCount;
    int teaCount;
    int sandwichCount;
    int totalAmount;

    const int coffeePrice = 50;
    const int teaPrice = 30;
    const int sandwichPrice = 70;

public:
    Cafe() : coffeeCount(0), teaCount(0), sandwichCount(0), totalAmount(0) {}

    void showMenu() {
        cout << "\n========== Cafe Menu ==========" << endl;
        cout << "1. Coffee (Rs. " << coffeePrice << ")" << endl;
        cout << "2. Tea (Rs. " << teaPrice << ")" << endl;
        cout << "3. Sandwich (Rs. " << sandwichPrice << ")" << endl;
        cout << "4. View Bill" << endl;
        cout << "5. Exit" << endl;
    }
```

```cpp
void orderItem(int choice) {
    switch (choice) {
    case 1:
        coffeeCount++;
        totalAmount += coffeePrice;
        cout << "Coffee added to your order.\n";
        break;
    case 2:
        teaCount++;
        totalAmount += teaPrice;
        cout << "Tea added to your order.\n";
        break;
    case 3:
        sandwichCount++;
        totalAmount += sandwichPrice;
        cout << "Sandwich added to your order.\n";
        break;
    case 4:
        viewBill();
        break;
    case 5:
        cout << "Thank you for visiting the cafe!\n";
        exit(0);
    default:
        cout << "Invalid choice. Please try again.\n";
        break;
```

```cpp
        }
    }

    void viewBill() {
        cout << "\n========= Your Bill =========" << endl;
        if (coffeeCount > 0)
            cout << "Coffee x " << coffeeCount << " = Rs. " << coffeeCount * coffeePrice << endl;
        if (teaCount > 0)
            cout << "Tea x " << teaCount << " = Rs. " << teaCount * teaPrice << endl;
        if (sandwichCount > 0)
            cout << "Sandwich x " << sandwichCount << " = Rs. " << sandwichCount * sandwichPrice << endl;
        cout << "----------------------------" << endl;
        cout << "Total Amount = Rs. " << totalAmount << endl;
    }
};

int main() {
    Cafe cafe;
    int choice;

    while (true) {
        cafe.showMenu();
        cout << "Enter your choice: ";
        cin >> choice;
        cafe.orderItem(choice);
```
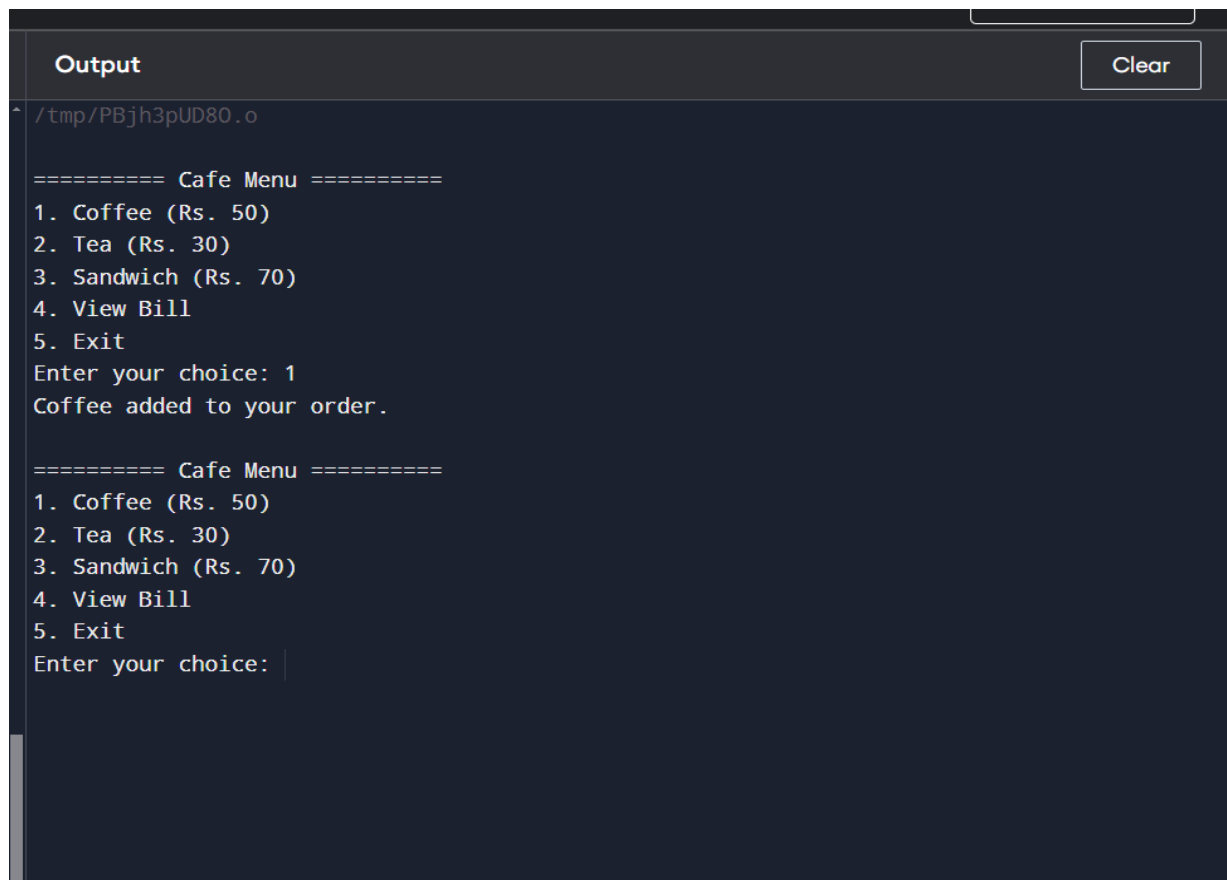
```
    }

    return 0;
}
```

OUTPUT

```
/tmp/PBjh3pUD8O.o

========== Cafe Menu ==========
1. Coffee (Rs. 50)
2. Tea (Rs. 30)
3. Sandwich (Rs. 70)
4. View Bill
5. Exit
Enter your choice: 1
Coffee added to your order.

========== Cafe Menu ==========
1. Coffee (Rs. 50)
2. Tea (Rs. 30)
3. Sandwich (Rs. 70)
4. View Bill
5. Exit
Enter your choice:
```

```
Output                                                    Clear

/tmp/is2mzr8xnm.o

========== Cafe Menu ==========
1. Coffee (Rs. 50)
2. Tea (Rs. 30)
3. Sandwich (Rs. 70)
4. View Bill
5. Exit
Enter your choice: 2
Tea added to your order.

========== Cafe Menu ==========
1. Coffee (Rs. 50)
2. Tea (Rs. 30)
3. Sandwich (Rs. 70)
4. View Bill
5. Exit
Enter your choice: |
```

CONCLUSION

This Cafe Management System project provides a simple but effective way to manage orders and calculate the bill in a cafe. By utilizing arrays, loops, and basic input/output, the system allows users to order multiple items and receive an accurate total. This C++ project can be further extended by adding more features such as inventory management, customer information storage, or generating itemized bills for customers.