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DEPARTMENT: CYBER SECURITY   SUBJECT: PROGRAMMING FUNDAMENTALS

1.

```cpp
                    cout << "Added " << menu3 << " to the lunch.\n";
                    break;
                case 4:
                    totalCost += cost4;
                    cout << "Added " << menu4 << " to the lunch.\n";
                    break;
            }
            numGuests++;
        }

    char viewSummary;

    do {
        cout << "\nDo you want to view the lunch summary? (y/n): ";
        cin >> viewSummary;

        if (viewSummary == 'y') {
            cout << "\nLunch Summary:";
            cout << "Number of Guests: " << numGuests << "\n";
            cout << "Total Cost: $" << totalCost << "\n";
        }

    } while (viewSummary == 'n');

    cout << "Thank you for using the Lunch Party Management System!";

    return 0;
}
```

Compiler (3) Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\um.exe
- Output Size: 2.25164318084717 MiB
- Compilation Time: 1.45s
```

C:\Users\asher imtiaz\OneDrive\Desktop\um.exe

```
Welcome to the Lunch Party Management System!
Menu:
1. P - $9.99
2. B - $5.99
3. S - $3.99
4. C - $1.5

Enter the number of the item you want to include in the lunch (0 to finish):
4
Added C to the lunch.

Enter the number of the item you want to include in the lunch (0 to finish): 3
Added S to the lunch.

Enter the number of the item you want to include in the lunch (0 to finish): 0

Do you want to view the lunch summary? (y/n): n

Do you want to view the lunch summary? (y/n): n

Do you want to view the lunch summary? (y/n): y

Lunch Summary:Number of Guests: 2
Total Cost: $5.49
Thank you for using the Lunch Party Management System!
------------------------------
Process exited after 22.76 seconds with return value 0
Press any key to continue . . .
```

```cpp
        cin >> choice;

        if (choice == 0) {
            break;
        }
        if (choice < 1 || choice > 4) {
            cout << "Invalid choice. Please choose a number from the menu.\n";
            continue;
        }

        switch (choice) {
            case 1:
                totalCost += cost1;
                cout << "Added " << menu1 << " to the lunch.\n";
                break;
            case 2:
                totalCost += cost2;
                cout << "Added " << menu2 << " to the lunch.\n";
                break;
            case 3:
                totalCost += cost3;
                cout << "Added " << menu3 << " to the lunch.\n";
                break;
            case 4:
                totalCost += cost4;
                cout << "Added " << menu4 << " to the lunch.\n";
                break;
        }
        numGuests++;
    }

    char viewSummary;

    do {
        cout << "\nDo you want to view the lunch summary? (y/n): ";
        cin >> viewSummary;

        if (viewSummary == 'y') {
```

Compiler (3) Resources Compile Log Debug Find Results Console Close

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```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\um.exe
- Output Size: 2.25164318084717 MiB
- Compilation Time: 1.45s
```

C:\Users\asher imtiaz\OneDrive\Desktop\um.exe

```
Welcome to the Lunch Party Management System!
Menu:
1. P - $9.99
2. B - $5.99
3. S - $3.99
4. C - $1.5

Enter the number of the item you want to include in the lunch (0 to finish):
4
Added C to the lunch.

Enter the number of the item you want to include in the lunch (0 to finish): 3
Added S to the lunch.

Enter the number of the item you want to include in the lunch (0 to finish): 0

Do you want to view the lunch summary? (y/n): n

Do you want to view the lunch summary? (y/n): n

Do you want to view the lunch summary? (y/n): y

Lunch Summary:Number of Guests: 2
Total Cost: $5.49
Thank you for using the Lunch Party Management System!
------------------------------
Process exited after 22.76 seconds with return value 0
Press any key to continue . . .
```

2.

Project | Classes

um.cpp ✕

```cpp
#include <iostream>
using namespace std;
int main() {
    int tripDays;
    cout << "Enter the number of days for your trip: ";
    cin >> tripDays;

    double totalExpense = 0;
    for (int day = 1; day <= tripDays; ++day) {
        double dailyExpense;
        cout << "Enter expenses for Day " << day << ": $";
        cin >> dailyExpense;
        totalExpense += dailyExpense;
    }
    cout << "\nTotal trip expense: $" << totalExpense << "\n\n";
    char addSpecialExpense;
    while (true) {
        cout << "Do you have any special expenses to add? (y/n): ";
        cin >> addSpecialExpense;
        if (addSpecialExpense == 'y' || addSpecialExpense == 'Y')
        {
            double specialExpense;
            cout << "Enter special expense amount: $";
            cin >> specialExpense;
            totalExpense += specialExpense;
        } else {
            break;
        }
    }
    cout << "\nUpdated total trip expense: $" << totalExpense << "\n\n";
    char viewSummary;
    do {
        cout << "Do you want to view the expense summary? (y/n): ";
        cin >> viewSummary;

        if (viewSummary == 'y') {
            std::cout << "Your total trip expense is: $" << totalExpense << "\n";
        }

    } while (viewSummary == 'y');

    cout << "\nThank you for using the Trip Expense Tracker!\n";

    return 0;
}
```

🛡 Compiler (3) | 📄 Resources | 🗔 Compile Log | 🗐 Debug | 🗐 Find Results | 🗀 Console | 🗕 Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\um.exe
- Output Size: 2.25066661834717 MiB
- Compilation Time: 1.39s
```

C:\Users\asher imtiaz\OneDrive\Desktop\um.exe

```
Enter the number of days for your trip: 3
Enter expenses for Day 1: $34
Enter expenses for Day 2: $65
Enter expenses for Day 3: $76

Total trip expense: $175

Do you have any special expenses to add? (y/n): y
Enter special expense amount: $56
Do you have any special expenses to add? (y/n): n

Updated total trip expense: $231

Do you want to view the expense summary? (y/n): y
Your total trip expense is: $231
Do you want to view the expense summary? (y/n): n

Thank you for using the Trip Expense Tracker!

--------------------------------
Process exited after 274.5 seconds with return value 0
Press any key to continue . . .
```