

Activity No. 3.1	
Hands-on Activity 3.1: Control Structures (part 2)	
Course Code: CPE007	Program: Computer Engineering
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Output	
<p>1. Develop a C++ program that will determine if a department store customer has exceeded the credit limit on a charge account. For each customer, the following facts are available:</p> <ol style="list-style-type: none"> 1. Account number 2. Balance at the beginning of the month 3. Total of all items charged by this customer this month 4. Total of all credits applied to this customer's account this month 5. Allowed credit limit <p>The program should input each of these facts, calculate the new balance ($= \text{beginning balance} + \text{charges} - \text{credits}$), and determine if the new balance exceeds the customer's credit limit. For those customers whose credit limit is exceeded, the program should display the customer's account number, credit limit, new balance and the message "Credit limit exceeded."</p> <p>Sample output:</p> <p>Enter account number (-1 to end): 100 Enter beginning balance: 5394.78 Enter total charges: 1000.00 Enter total credits: 500.00 Enter credit limit: 5500.00 Account: 100 Credit limit: 5500.00 Balance: 5894.78 Credit Limit Exceeded.</p> <p>Enter account number (-1 to end): 200 Enter beginning balance: 1000.00 Enter total charges: 123.45 Enter total credits: 321.00 Enter credit limit: 1500.00</p> <p>Enter account number (-1 to end): 300 Enter beginning balance: 500.00 Enter total charges: 274.73 Enter total credits: 100.00 Enter credit limit: 800.00</p> <p>Enter account number (-1 to end): -1 Program ends.</p> <p>CODE: <pre>#include <iostream> #include <iomanip></pre></p>	

```

int main() {
    int accountNumber;
    float beginningBalance;
    float totalCharges;
    float totalCredits;
    float creditLimit;
    float newBalance;

    std::cout << "Enter account number (-1 to end): ";
    std::cin >> accountNumber;

    while (accountNumber != -1) {
        std::cout << "Enter beginning balance: ";
        std::cin >> beginningBalance;

        std::cout << "Enter total charges: ";
        std::cin >> totalCharges;

        std::cout << "Enter total credits: ";
        std::cin >> totalCredits;

        std::cout << "Enter credit limit: ";
        std::cin >> creditLimit;

        newBalance = beginningBalance + totalCharges - totalCredits;

        std::cout << std::fixed << std::setprecision(2); // according to the example it only displays 2 decimals points

        if (newBalance > creditLimit) {
            std::cout << "\nAccount: " << accountNumber << std::endl;
            std::cout << "Credit limit: " << creditLimit << std::endl;
            std::cout << "Balance: " << newBalance << std::endl;
            std::cout << "Credit Limit Exceeded." << std::endl;
        }

        std::cout << "\nEnter account number (-1 to end) ";
        std::cin >> accountNumber;
    }
    1
    std::cout << "\nProgram ended." << std::endl;

    return 0;
}

```

RESULT:

The screenshot shows a C++ IDE with two windows. The left window displays the source code for a program that simulates a credit card account. The code includes headers for `<iostream>` and `<iomanip>`, and defines a `main()` function. It uses a `while` loop to repeatedly prompt the user for account number, beginning balance, total charges, total credits, and credit limit. It calculates the new balance and checks if it exceeds the credit limit. The right window shows the program's output, which matches the sample output provided in the text. The output shows three iterations of entering account information and the final program termination message.

```
#include <iostream>
#include <iomanip>

int main() {
    int accountNumber;
    float beginningBalance;
    float totalCharges;
    float totalCredits;
    float creditLimit;
    float newBalance;

    std::cout << "Enter account number (-1 to end): ";
    std::cin >> accountNumber;

    while (accountNumber != -1) {
        std::cout << "Enter beginning balance: ";
        std::cin >> beginningBalance;

        std::cout << "Enter total charges: ";
        std::cin >> totalCharges;

        std::cout << "Enter total credits: ";
        std::cin >> totalCredits;

        std::cout << "Enter credit limit: ";
        std::cin >> creditLimit;

        newBalance = beginningBalance + totalCharges - totalCredits;

        std::cout << std::fixed << std::setprecision(2); // according to the example it only displays 2 decimal points
        if (newBalance > creditLimit) {
            std::cout << "\nAccount: " << accountNumber << std::endl;
            std::cout << "Credit limit: " << creditLimit << std::endl;
            std::cout << "Balance: " << newBalance << std::endl;
            std::cout << "Credit Limit Exceeded." << std::endl;
        }

        std::cout << "\nEnter account number (-1 to end): ";
        std::cin >> accountNumber;
    }

    std::cout << "\nProgram ended." << std::endl;
    return 0;
}
```

```
Enter account number (-1 to end): 1437
Enter beginning balance: 5400.69
Enter total charges: 2000.00
Enter total credits: 1500.00
Enter credit limit: 5600.00

Account: 1437
Credit limit: 5600.00
Balance: 5900.69
Credit Limit Exceeded.

Enter account number (-1 to end): 143637
Enter beginning balance: 1200.00
Enter total charges: 543.21
Enter total credits: 696.69
Enter credit limit: 2500.00

Enter account number (-1 to end): 143
Enter beginning balance: 660.00
Enter total charges: 369.69
Enter total credits: 200.00
Enter credit limit: 1200.00

Enter account number (-1 to end): -1
Program ended.

-----
Process exited after 209.5 seconds with return value 0
Press any key to continue . . .
```

- Because of the price of gasoline, drivers are concerned with the mileage obtained by their automobiles. One driver has kept track of several tankfuls of gasoline by recording miles driven and gallons used for each tankful. Develop a program that will input the miles driven and gallons used for each tankful. The program should calculate and display the miles per gallon obtained for each tankful. After processing all input information, the program should calculate and print the combined miles per gallon obtained for all tank fuels.

Sample output:

Enter the gallons used (-1 to end): 12.8

Enter the miles driven: 287

The miles / gallon for this tank was 22.421875

Enter the gallons used (-1 to end): 10.3

Enter the miles driven: 200

The miles / gallon for this tank was 19.417475

Enter the gallons used (-1 to end): 5

Enter the miles driven: 120

The miles / gallon for this tank was 24.000000

Enter the gallons used (-1 to end):

The overall average miles/gallon was 21.601423

CODE:

```
#include <iostream>
```

```
#include <iomanip>
```

```
int main() {
    double totalGallons = 0.0;
    double totalMiles = 0.0;
```

```
double gallons;
double miles;

std::cout << "Enter the gallons used (-1 to end): ";
std::cin >> gallons;

while (gallons != -1) {
    std::cout << "Enter the miles driven: ";
    std::cin >> miles;

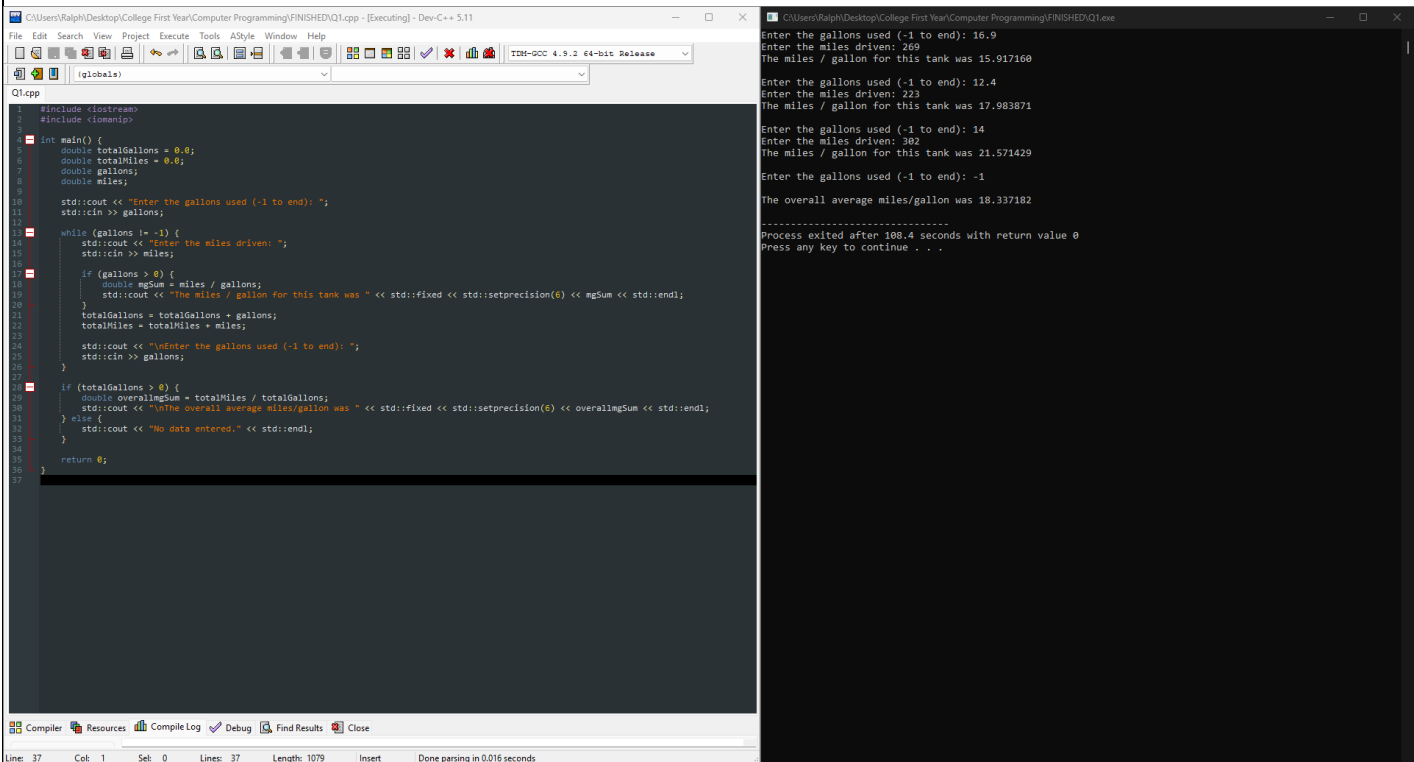
    if (gallons > 0) {
        double mgSum = miles / gallons;
        std::cout << "The miles / gallon for this tank was " << std::fixed << std::setprecision(6) << mgSum << std::endl;
    }
    totalGallons = totalGallons + gallons;
    totalMiles = totalMiles + miles;

    std::cout << "\nEnter the gallons used (-1 to end): ";
    std::cin >> gallons;
}

if (totalGallons > 0) {
    double overallmgSum = totalMiles / totalGallons;
    std::cout << "\nThe overall average miles/gallon was " << std::fixed << std::setprecision(6) << overallmgSum <<
std::endl;
} else {
    std::cout << "No data entered." << std::endl;
}

return 0;
}
```

RESULT:



```
Q1.cpp
1 #include <iostream>
2 #include <iomanip>
3
4 int main() {
5     double totalGallons = 0.0;
6     double totalMiles = 0.0;
7     double gallons;
8     double miles;
9
10    std::cout << "Enter the gallons used (-1 to end): ";
11    std::cin >> gallons;
12
13    while (gallons != -1) {
14        std::cout << "Enter the miles driven: ";
15        std::cin >> miles;
16
17        if (gallons > 0) {
18            double mpgSum = miles / gallons;
19            std::cout << "The miles / gallon for this tank was " << std::fixed << std::setprecision(6) << mpgSum << std::endl;
20
21            totalGallons = totalGallons + gallons;
22            totalMiles = totalMiles + miles;
23
24            std::cout << "Enter the gallons used (-1 to end): ";
25            std::cin >> gallons;
26
27        }
28
29        if (totalGallons > 0) {
30            double overallMpgSum = totalMiles / totalGallons;
31            std::cout << "The overall average miles/gallon was " << std::fixed << std::setprecision(6) << overallMpgSum << std::endl;
32        } else {
33            std::cout << "No data entered." << std::endl;
34        }
35    }
36
37    return 0;
38 }
```

```
Enter the gallons used (-1 to end): 16.9
Enter the miles driven: 269
The miles / gallon for this tank was 15.917168

Enter the gallons used (-1 to end): 12.4
Enter the miles driven: 223
The miles / gallon for this tank was 17.983871

Enter the gallons used (-1 to end): 14
Enter the miles driven: 302
The miles / gallon for this tank was 21.571429

Enter the gallons used (-1 to end): -1

The overall average miles/gallon was 18.337182

-----
Process exited after 108.4 seconds with return value 0
Press any key to continue . . .
```

3. Create a program that will calculate the cost of sending a small parcel. The post office charges P5.00 for the first 300g, and P2.00 for every 100g thereafter (rounded up), up to a maximum weight of 1000g.

CODE:

```
#include <iostream>
```

```
int main() {
    int parcel;

    std::cout << "Enter weight of item: ";
    std::cin >> parcel;

    if (parcel <= 300) {
        std::cout << "You must pay P5.00 for your small parcel";
    } else if (parcel >= 301 && parcel <= 400) {
        std::cout << "Weight: "<< parcel <<"g You must pay P7.00";
    } else if (parcel >= 401 && parcel <= 500) {
        std::cout << "Weight: "<< parcel <<"g You must pay P9.00";
    } else if (parcel >= 501 && parcel <= 600) {
        std::cout << "Weight: "<< parcel <<"g You must pay P11.00";
    } else if (parcel >= 601 && parcel <= 700) {
        std::cout << "Weight: "<< parcel <<"g You must pay P13.00";
    } else if (parcel >= 701 && parcel <= 800) {
        std::cout << "Weight: "<< parcel <<"g You must pay P15.00";
    } else if (parcel >= 801 && parcel <= 900) {
        std::cout << "Weight: "<< parcel <<"g You must pay P17.00";
    } else if (parcel >= 901 && parcel <= 1000) {
        std::cout << "Weight: "<< parcel <<"g You must pay P19.00";
    } else {
```

```

    std::cout << "Weight Exceeded";
}

return 0;

}

```

RESULT:

```

1 #include <iostream>
2
3 int main() {
4     int parcel;
5
6     std::cout << "Enter weight of item: ";
7     std::cin >> parcel;
8
9     if (parcel <= 300) {
10        std::cout << "You must pay P5.00 for your small parcel";
11    } else if (parcel >= 301 && parcel <= 400) {
12        std::cout << "Weight: " << parcel << "g You must pay P7.00";
13    } else if (parcel >= 401 && parcel <= 500) {
14        std::cout << "Weight: " << parcel << "g You must pay P9.00";
15    } else if (parcel >= 501 && parcel <= 600) {
16        std::cout << "Weight: " << parcel << "g You must pay P11.00";
17    } else if (parcel >= 601 && parcel <= 700) {
18        std::cout << "Weight: " << parcel << "g You must pay P13.00";
19    } else if (parcel >= 701 && parcel <= 800) {
20        std::cout << "Weight: " << parcel << "g You must pay P15.00";
21    } else if (parcel >= 801 && parcel <= 900) {
22        std::cout << "Weight: " << parcel << "g You must pay P17.00";
23    } else if (parcel >= 901 && parcel <= 1000) {
24        std::cout << "Weight: " << parcel << "g You must pay P19.00";
25    } else {
26        std::cout << "Weight Exceeded";
27    }
28
29    return 0;
30 }

```

```

Enter weight of item: 695
Weight: 695g You must pay P13.00
-----
Process exited after 16.31 seconds with return value 0
Press any key to continue . . .

```

4. Write a program that displays a menu for simple conversion such as the follow:

- (1) cm – inches
- (2) inches – cm
- (3) feet – meter
- (4) meter - feet

Once selected, user will be asked to enter a float and be converted. After the conversion the user would be ask to convert another until the user don't want anymore. Display your samples for all conversions

CODE:

```

#include <iostream>
#include <iomanip>

```

```

int main() {

```

```

    std::cout << std::fixed << std::setprecision(2); // to result to only 2 decimals.

```

```

    int choice;

```

```

    double value;

```

```

    char continueC;

```

```

    do {

```

```

        std::cout << "-----\n";

```

```

        std::cout << "    Conversion Table v1.43    \n";

```

```

std::cout << "-----\n";
std::cout << "(1) cm -> inches\n";
std::cout << "(2) inches -> cm\n";
std::cout << "(3) feet -> meters\n";
std::cout << "(4) meters -> feet\n";
std::cout << "-----\n";
std::cout << "Enter your choice (1-4): ";
std::cin >> choice;

switch (choice) {
    case 1:
        std::cout << "Enter the value in centimeters (cm): ";
        std::cin >> value;
        std::cout << value << " cm is equal to " << value / 2.54 << " inches.\n";
        break;
    case 2:
        std::cout << "Enter the value in inches: ";
        std::cin >> value;
        std::cout << value << " inches is equal to " << value * 2.54 << " cm.\n";
        break;
    case 3:
        std::cout << "Enter the value in feet: ";
        std::cin >> value;
        std::cout << value << " feet is equal to " << value / 3.28084 << " meters.\n";
        break;
    case 4:
        std::cout << "Enter the value in meters: ";
        std::cin >> value;
        std::cout << value << " meters is equal to " << value * 3.28084 << " feet.\n";
        break;
    default:
        std::cout << "Invalid choice. Please select a number from 1 to 4.\n";
}
std::cout << "\nDo you want to convert another value? (y/n): ";
std::cin >> continueC;

} while (continueC == 'y' || continueC == 'Y');
if (continueC == 'n' || continueC == 'N') {
    std::cout << "Thanks for converting!\n";
} else{
    std::cout << "Invalid Choice. Please restart to convert again.";
}

return 0;

}

```

RESULT:

```
Conversion Table v1.43
(1) cm -> inches
(2) inches -> cm
(3) feet -> meters
(4) meters -> feet
Enter your choice (1-4): 1
Enter the value in centimeters (cm): 200
200.00 cm is equal to 78.74 inches.
Do you want to convert another value? (y/n): y
Conversion Table v1.43
(1) cm -> inches
(2) inches -> cm
(3) feet -> meters
(4) meters -> feet
Enter your choice (1-4): 2
Enter the value in inches: 143
143.00 inches is equal to 363.22 cm.
Do you want to convert another value? (y/n): y
Conversion Table v1.43
(1) cm -> inches
(2) inches -> cm
(3) feet -> meters
(4) meters -> feet
Enter your choice (1-4): 3
Enter the value in feet: 69
69.00 feet is equal to 21.03 meters.
Do you want to convert another value? (y/n): y
Conversion Table v1.43
(1) cm -> inches
(2) inches -> cm
(3) feet -> meters
(4) meters -> feet
Enter your choice (1-4): 4
Enter the value in meters: 21
21.00 meters is equal to 68.90 feet.
Do you want to convert another value? (y/n): n
Thanks for converting!
Process exited after 106.6 seconds with return value 0
Press any key to continue . . .
```

INPUTING RANDOM VALUES

```
Conversion Table v1.43
(1) cm -> inches
(2) inches -> cm
(3) feet -> meters
(4) meters -> feet
Enter your choice (1-4): 5
Invalid choice. Please select a number from 1 to 4.
Do you want to convert another value? (y/n): dasdf
Invalid Choice. Please restart to convert again.
Process exited after 16.71 seconds with return value 0
Press any key to continue . . .
```

5. Write a program that displays a menu for simple computation of formula such as the following:

- (1) Area of circle, will ask for radius from user
- (2) Area of rectangle, will ask for L and W
- (3) Area of triangle, will ask for B and H
- (4) Area of square - feet, will ask for S

CODE:

```
#include <iostream>
#include <iomanip>

int main() {
    int choice;
    double radius;
    double length;
    double width;
    double height;
    double base;
    double side;
    char continueC;

    do {
        std::cout << "-----\n";
        std::cout << "  Computation Formula v1.43  \n";
        std::cout << "-----\n";
        std::cout << "(1) Area of circle\n";
        std::cout << "(2) Area of rectangle\n";
        std::cout << "(3) Area of triangle\n";
        std::cout << "(4) Area of square\n";
        std::cout << "Enter your choice: ";
        std::cin >> choice;

        switch(choice){
            case 1:
                std::cout << "Enter radius: ";
                std::cin >> radius;
                std::cout << "The radius is " << radius << "\n";
                std::cout << "The area of the circle is: " << 3.14 * (radius * radius) << std::endl;
                break;
            case 2:
                std::cout << "Enter Length: ";
                std::cin >> length;
                std::cout << "Enter Width: ";
                std::cin >> width;
                std::cout << "The area of the rectangle is: " << (length * width) << "\n";
                break;
            case 3:
                std::cout << "Enter Height: ";
                std::cin >> height;
                std::cout << "Enter Base: ";
                std::cin >> base;
                std::cout << "The area of the triangle is: " << (height * base) / 2 << "\n";
                break;
            case 4:
                std::cout << "Enter the length of the sides: ";
                std::cin >> side;
                std::cout << "The area of the square is: " << (side * side) << "\n";
                break;
            default:
```

```

        std::cout << "Invalid choice. Please select a number from 1 to 4.\n";
    }

    std::cout << "\nDo you want to continue? (y/n): ";
    std::cin >> continueC;
} while (continueC == 'y' || continueC == 'Y');
    if (continueC == 'n' || continueC == 'N') {
        std::cout << "Thanks for computing!\n";
    } else {
        std::cout << "Invalid Choice. Please Restart.";
    }
}

return 0;
}

```

RESULT:

The screenshot displays a C++ program titled "Computation Formula v1.43" running in a terminal window. The program prompts the user to select a formula (1-4) and then calculates the area based on the choice. The output shows three successful calculations for a circle, a rectangle, and a triangle, followed by a successful square calculation. The program then asks if the user wants to continue, and the user responds 'n', leading to a "Thanks for computing!" message. The status bar at the bottom indicates the process exited after 62.98 seconds with a return value of 0.

```

C:\Users\Ralph\Desktop\College First Year\Computer Programming\FINISHED\Q1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Q1.cpp laststream
1 #include <iostream>
2 #include <conio.h>
3
4 int main() {
5     int choice;
6     double radius;
7     double length;
8     double width;
9     double height;
10    double base;
11    double side;
12    char continueC;
13
14    do {
15        std::cout << "-----\n";
16        std::cout << "    Computation Formula v1.43    \n";
17        std::cout << "-----\n";
18        std::cout << "(1) Area of circle\n";
19        std::cout << "(2) Area of rectangle\n";
20        std::cout << "(3) Area of triangle\n";
21        std::cout << "(4) Area of square\n";
22        std::cout << "Enter your choice: ";
23        std::cin >> choice;
24
25        switch(choice){
26
27            case 1:
28                std::cout << "Enter radius: ";
29                std::cin >> radius;
30                std::cout << "The radius is " << radius << "\n";
31                std::cout << "The area of the circle is: " << 3.14 * (radius * radius) << std::endl;
32                break;
33            case 2:
34                std::cout << "Enter Length: ";
35                std::cin >> length;
36                std::cout << "Enter Width: ";
37                std::cin >> width;
38                std::cout << "The area of the rectangle is: " << (length * width) << "\n";
39                break;
40            case 3:
41                std::cout << "Enter Height: ";
42                std::cin >> height;
43                std::cout << "Enter Base: ";
44                std::cin >> base;
45                std::cout << "The area of the triangle is: " << (height * base) / 2 << "\n";
46                break;
47            case 4:
48                std::cout << "Enter the length of the sides: ";
49                std::cin >> side;
50                std::cout << "The area of the square is: " << (side * side) << "\n";
51                break;
52            default:
53                std::cout << "Invalid choice. Please select a number from 1 to 4.\n";
54        }
55
56        std::cout << "\nDo you want to continue? (y/n): ";
57        std::cin >> continueC;
58    } while (continueC == 'y' || continueC == 'Y');
59    if (continueC == 'n' || continueC == 'N') {
60        std::cout << "Thanks for computing!\n";
61    } else {
62        std::cout << "Invalid Choice. Please Restart.";
63    }
64
65    return 0;
66}
Line: 3 Col: 1 Sel: 0 Lines: 65 Length: 2319 Insert Done parsing in 0.016 seconds

```

```

Computation Formula v1.43
(1) Area of circle
(2) Area of rectangle
(3) Area of triangle
(4) Area of square
Enter your choice: 1
Enter radius: 7
The radius is 7
The area of the circle is: 153.86
Do you want to continue? (y/n): y
Computation Formula v1.43
(1) Area of circle
(2) Area of rectangle
(3) Area of triangle
(4) Area of square
Enter your choice: 2
Enter Length: 2
Enter Width: 3
The area of the rectangle is: 6
Do you want to continue? (y/n): y
Computation Formula v1.43
(1) Area of circle
(2) Area of rectangle
(3) Area of triangle
(4) Area of square
Enter your choice: 3
Enter Height: 10
Enter Base: 2
The area of the triangle is: 10
Do you want to continue? (y/n): y
Computation Formula v1.43
(1) Area of circle
(2) Area of rectangle
(3) Area of triangle
(4) Area of square
Enter your choice: 4
Enter the length of the sides: 8
The area of the square is: 64
Do you want to continue? (y/n): n
Thanks for computing!
Process exited after 62.98 seconds with return value 0
Press any key to continue . . .

```

INPUTING RANDOM VALUES

The image shows a screenshot of a C++ program in Dev-C++ with two windows. The left window displays the source code for a program titled 'Q1.cpp' that calculates the area of various shapes based on user input. The right window shows the program's execution output.

```
#include <iostream>
#include <conio.h>

int main() {
    int choice;
    double radius;
    double length;
    double width;
    double height;
    double base;
    double side;
    char continuec;

    do {
        std::cout << "-----\n";
        std::cout << "      Computation Formula v1.43      \n";
        std::cout << "-----\n";
        std::cout << "(1) Area of circle\n";
        std::cout << "(2) Area of rectangle\n";
        std::cout << "(3) Area of triangle\n";
        std::cout << "(4) Area of square\n";
        std::cout << "Enter your choice: ";
        std::cin >> choice;

        switch(choice){
            case 1:
                std::cout << "Enter radius: ";
                std::cin >> radius;
                std::cout << "The radius is " << radius << "\n";
                std::cout << "The area of the circle is: " << 3.14 * (radius * radius) << "\n";
                break;
            case 2:
                std::cout << "Enter Length: ";
                std::cin >> length;
                std::cout << "Enter Width: ";
                std::cin >> width;
                std::cout << "The area of the rectangle is: " << (length * width) << "\n";
                break;
            case 3:
                std::cout << "Enter Height: ";
                std::cin >> height;
                std::cout << "Enter Base: ";
                std::cin >> base;
                std::cout << "The area of the triangle is: " << (height * base) / 2 << "\n";
                break;
            case 4:
                std::cout << "Enter the length of the sides: ";
                std::cin >> side;
                std::cout << "The area of the square is: " << (side * side) << "\n";
                break;
            default:
                std::cout << "Invalid choice. Please select a number from 1 to 4.\n";
        }

        std::cout << "\ndo you want to continue? (y/n): ";
        std::cin >> continuec;
    } while (continuec == 'y' || continuec == 'Y');
    if (continuec == 'n' || continuec == 'N') {
        std::cout << "Thanks for computing!\n";
    } else {
        std::cout << "Invalid Choice. Please Restart.\n";
    }
}
```

Execution Output:

```
Computation Formula v1.43
-----
(1) Area of circle
(2) Area of rectangle
(3) Area of triangle
(4) Area of square
Enter your choice: 5
Invalid choice. Please select a number from 1 to 4.

Do you want to continue? (y/n): ralph
Invalid Choice. Please Restart.
-----
Process exited after 14.85 seconds with return value 0
Press any key to continue . . .
```

Supplementary Activity

Conclusion

This was by far the hardest task I've ever done in Programming Logic & Design; there were so many errors, so much searching, and so many tears shed trying to figure out what went wrong with the code. It is a miracle that I managed to figure out how to translate every single task into code. I could say that my coding skills have somewhat improved while doing this stressful activity. I had a really hard time trying to figure out 4 and 5 because trying to understand “do” and “while” took me a whole while to understand how they work. I mean, I knew how they work; I just didn't know how to code it, if that makes sense. The knowledge that I acquired from this activity will surely help me with future tasks and lessen the amount of stress that I'll be facing as I learn to code.

Assessment Rubric

Total Points: 24