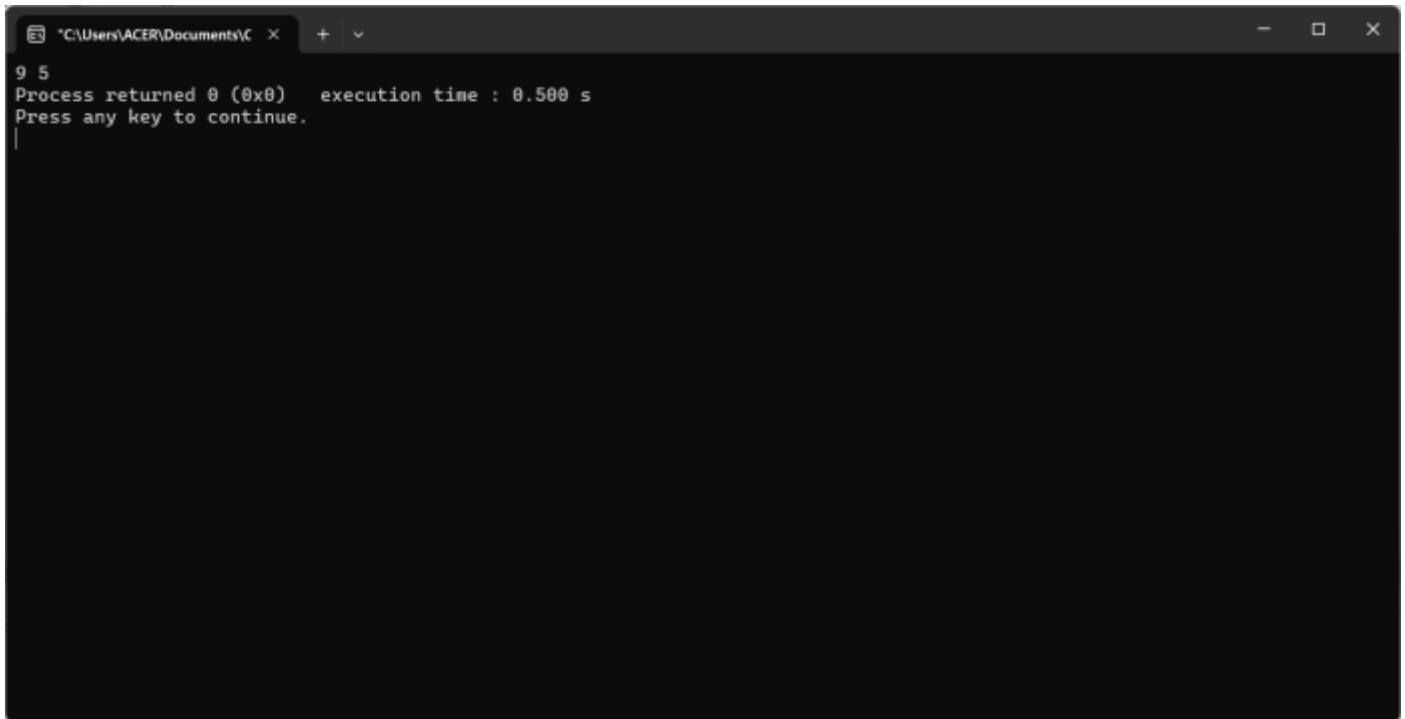


FUNCTION DEFINITION

1. Here is a screenshot of the output of MathOperations.cpp.



```
C:\Users\ACER\Documents\C
9 5
Process returned 0 (0x0) execution time : 0.500 s
Press any key to continue.
```

2. Here is the code of No.2 and screenshot of its output.

CODE:

```
//Name: Ignacio, Rod Angelo Benedict V.
//      Tube, Claire V.
//      Vargas, Diana Mari E.
#include <iostream>
#include <string>
using namespace std;

class customerProf{
private:
    string name;
    string gender;
    double minimum_cost;
    double maximum_cost;
    int frequency;
public:
    void setName(string Inputname){
        name = Inputname;
    }
    void setGender(string Inputgender){
```

```

    gender = Inputgender;
}
void setMincost(double Inputmincost){
    minimum_cost = Inputmincost;
}
void setMaxcost(double Inputmaxcost){
    maximum_cost = Inputmaxcost;
}
void setFrequency(int Inputfrequency){
    frequency = Inputfrequency;
}
string getName(){
    return name;
}
string getGender(){
    return gender;
}
double getMincost(){
    return minimum_cost;
}
double getMaxcost(){
    return maximum_cost;
}
int getFrequency(){
    return frequency;
}
};

class disCount{
public:
    void discount_determine(double Inputmincost, double Inputmaxcost, int Inputfrequency){
        if (Inputmincost >= 500 && Inputmaxcost >= 5000 && Inputfrequency >= 10){
            cout << "Discount: 50%" << endl;
        } else if (Inputmincost >= 300 && Inputmaxcost >= 3000 && Inputfrequency >= 5){
            cout << "Discount: 30%" << endl;
        } else if (Inputmincost >= 100 && Inputmaxcost >= 1000 && Inputfrequency >= 3){
            cout << "Discount: 10%" << endl;
        } else {
            cout << "No discount available for you, shop more to get a discount" << endl;
        }
    }
};

int main(){
    int option;
    do{
        string Inputname;
        string Inputgender;
        double Inputmincost;
        double Inputmaxcost;
        int Inputfrequency;

        customerProf input;

```

```
disCount discount;
```

```
cout << "Enter Name: ";  
getline(cin, Inputname);  
input.setName(Inputname);
```

```
cout << "Enter Gender: ";  
cin >> Inputgender;  
input.setGender(Inputgender);
```

```
cout << "Enter Minimum Cost: ";  
cin >> Inputmincost;  
input.setMincost(Inputmincost);
```

```
cout << "Enter Maximum Cost: ";  
cin >> Inputmaxcost;  
input.setMaxcost(Inputmaxcost);
```

```
cout << "Enter Frequency: ";  
cin >> Inputfrequency;  
input.setFrequency(Inputfrequency);
```

```
cout << "======" << endl;  
cout << "=====Customer Info======" << endl;  
cout << "Name: " << input.getName() << endl;  
cout << "Gender: " << input.getGender() << endl;  
cout << "Minimum Cost: " << input.getMincost() << endl;  
cout << "Maximum Cost: " << input.getMaxcost() << endl;  
cout << "Frequency: " << input.getFrequency() << endl;  
cout << "======" << endl;  
discount.discount_determine(Inputmincost, Inputmaxcost, Inputfrequency);  
cout << "======" << endl;  
cout << "Would you like to continue?" << endl;  
cout << "Press [1] to continue" << endl;  
cout << "Press [2] to end" << endl;  
cout << "Enter here: ";  
cin >> option;  
cout << "======" << endl;  
cin.ignore();
```

```
}while (option != 2);
```

```
}
```

SCREENSHOT OF ITS OUTPUT:

```
C:\Users\ACER\Documents\C > + -
Enter Name: Rod Angelo Benedict V. Ignacio
Enter Gender: Male
Enter Minimum Cost: 550
Enter Maximum Cost: 5050
Enter Frequency: 11
=====Customer Info=====
Name: Rod Angelo Benedict V. Ignacio
Gender: Male
Minimum Cost: 550
Maximum Cost: 5050
Frequency: 11
=====
Discount: 50%
=====
Would you like to continue?
Press [1] to continue
Press [2] to end
Enter here: 1
=====
Enter Name: Claire V. Tuble
Enter Gender: Female
Enter Minimum Cost: 440
Enter Maximum Cost: 4040
Enter Frequency: 6
=====Customer Info=====
Name: Claire V. Tuble
Gender: Female
Minimum Cost: 440
Maximum Cost: 4040
Frequency: 6
=====
Discount: 30%
=====
Would you like to continue?
Press [1] to continue
Press [2] to end
Enter here: 1
=====
Enter Name: Diana Mari E. Vargas
=====
Enter Gender: Female
Enter Minimum Cost: 110
Enter Maximum Cost: 1010
Enter Frequency: 2
=====Customer Info=====
Name: Diana Mari E. Vargas
Gender: Female
Minimum Cost: 110
Maximum Cost: 1010
Frequency: 2
=====
Discount: 10%
=====
Would you like to continue?
Press [1] to continue
Press [2] to end
Enter here: 2
=====
Process exited after 25.74 seconds with return value 0
Press any key to continue . . .
```

Explanation of the code:

- This code is a discount definer code where the user inputs his/her info then his minimum and maximum cost on the store and how frequently he/she shops at that store. also, the code allows the user to input and choose if he/she wants the program to continue or stop the program.