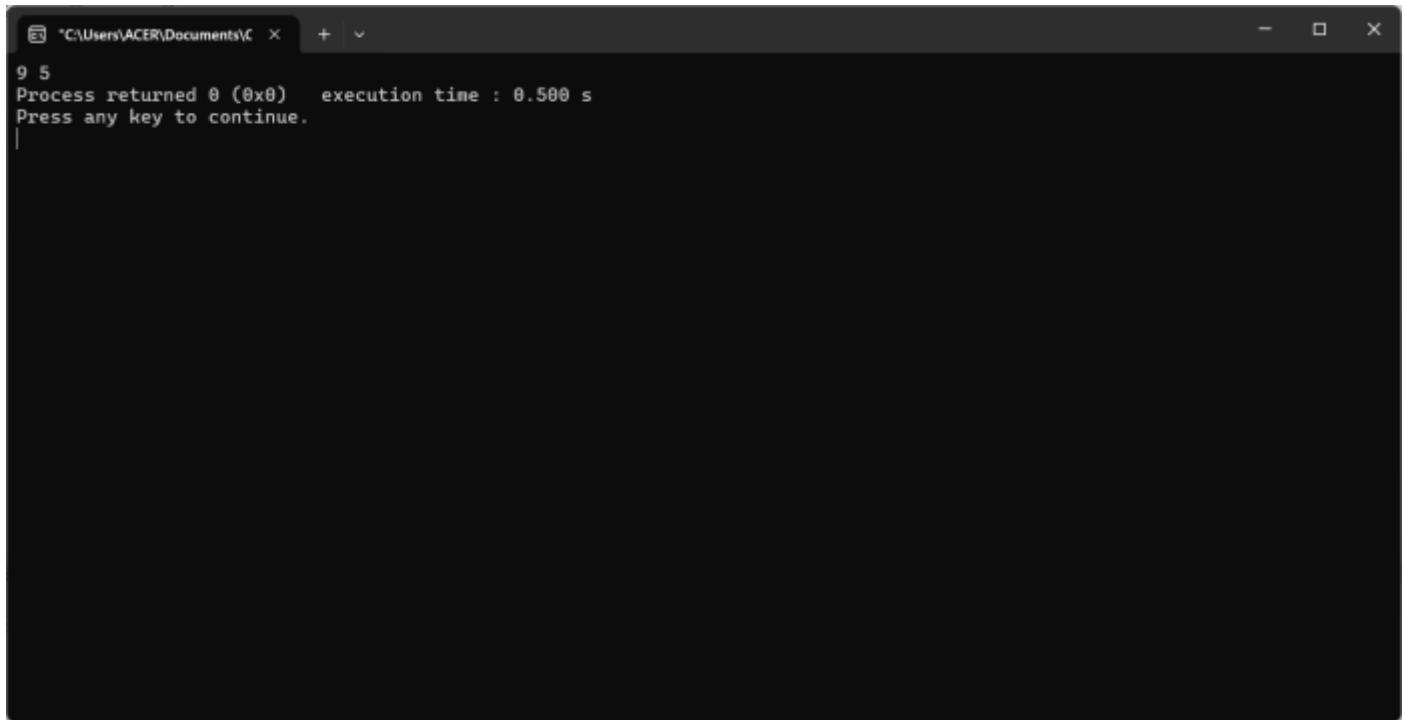


FUNCTION DEFINITION

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



```
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.
//          Tuble, 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 frequentcy;
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: 558  
Enter Maximum Cost: 5858  
Enter Frequency: 11  
=====Customer Info=====  
Name: Rod Angelo Benedict V. Ignacio  
Gender: Male  
Minimum Cost: 558  
Maximum Cost: 5858  
Frequency: 11  
=====Discount: 50%  
=====Would you like to continue?  
press [1] to continue  
Press [2] to end  
Enter here: 1  
=====Enter Name: Claire V. Table  
Enter Gender: Female  
Enter Minimum Cost: 408  
Enter Maximum Cost: 4040  
Enter Frequency: 6  
=====Customer Info=====  
Name: Claire V. Table  
Gender: Female  
Minimum Cost: 408  
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: 118  
Enter Maximum Cost: 1818  
Enter Frequency: 2  
=====Customer Info=====  
Name: Diana Mari E. Vargas  
Gender: Female  
Minimum Cost: 118  
Maximum Cost: 1818  
Frequency: 2  
=====Discount: 18%  
=====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 8  
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.