# Experiment No-01: Introduction to Class and Objects in OOP

Md. Hasibul Islam Jihad; ID - 2108048 06/10/24

# Objective

Write a C++ program to:

- Define a class Box and create objects of this class.
- Use the data members length, breadth, and height of the class.
- Calculate the volume of a box by accessing the members of this class using its object.

Example - 01: Write a C++ program to define a class BOX and create objects of this class.

#### Code

```
_{1} // C++ program to define a class Box and find the volume of a
3 #include <iostream>
4 using namespace std;
6 class Box {
7 public:
      double length; // Length of a box
      double breadth; // Breadth of a box
      double height; // Height of a box
11 };
12
13 int main() {
      Box Box1; // Declare Box1 of type Box
14
15
      Box Box2; // Declare Box2 of type Box
      double volume = 0.0; // Store the volume of a box here
      Box1.height = 5.0;
18
      Box1.length = 6.0;
19
      Box1.breadth = 7.0;
20
21
      Box2.height = 10.0;
22
      Box2.length = 12.0;
23
      Box2.breadth = 13.0;
^{24}
25
      volume = Box1.height * Box1.length * Box1.breadth;
26
      cout << "Volume of Box1 : " << volume << endl;</pre>
27
28
      volume = Box2.height * Box2.length * Box2.breadth;
29
      cout << "Volume of Box2 : " << volume << endl;</pre>
31
      return 0;
32
33 }
```

```
© DAL-ZT-Z/OOP/ex-Lexe × + v

Volume of Box1 : 210

Volume of Box2 : 1560

Process returned 0 (0x0) execution time : 0.074 s

Press any key to continue.
```

Example - 02: Write a C++ program to define a class BOX with member functions.

#### Code

```
2 #include <iostream>
3 using namespace std;
5 class BOX {
6 public:
      double length, breadth, height; //
      void input_value() {
9
           cout << "Enter three sides of a box: " << endl;</pre>
10
           cin >> length >> breadth >> height;
11
12
13
      void print_value() {
14
           cout << "Length : " << length << endl;</pre>
15
           cout << "Breadth : " << breadth << endl;</pre>
16
           cout << "Height : " << height << endl;</pre>
19
       double volume() {
20
           double v = length * breadth * height;
21
           return v;
22
       }
23
24 };
25
26 int main() {
      BOX myBox;
27
      myBox.input_value();
28
      myBox.print_value();
29
      double vol = myBox.volume();
      cout << "Volume of the box: " << vol << endl;</pre>
31
32 }
```

```
Enter three sides of a box:
5 6 7
Length: 5
Breadth: 6
Height: 7
Volume of the box: 210

Process returned 0 (0x0) execution time: 4.656 s
Press any key to continue.
```

Example - 03: Write a C++ program to understand public and private access of class data members.

#### Code

```
1 #include <iostream>
2 using namespace std;
4 class myTest {
5 private:
      int a, b, c; // Private data members
8 public:
      // Public member function to access and modify private data
           members
      void input_private() {
10
          cout << "Enter three integers: ";</pre>
11
          cin >> a >> b >> c;
12
13
14
      // Public member function to display the values of private
15
          data members
      void access_private() {
16
          cout << a << ' ' << b << ' ' << c << endl;
17
18
19 };
21 int main() {
      myTest v; // Create an object of myTest class
22
23
      // Use the public member function to input private members
24
      v.input_private();
25
26
      // Use the public member function to display the private
27
          members
      v.access_private();
28
29
      return 0;
30
31 }
```

## Output

for fixed code

Example - 04: Write a C++ program to understand public and private access of class data members.

#### Code

```
2 #include <iostream>
3 using namespace std;
5 class BOX {
6 private:
      double length, breadth, height;
9 public:
      void initData(double len, double brth, double hgt) {
          length = len;
11
          breadth = brth;
12
          height = hgt;
13
14
15
16
      double calculateArea() {
          return length * breadth;
19
      double calculateVolume() {
20
         return length * breadth * height;
21
22
23 };
25 int main() {
      BOX box1;
26
27
      box1.initData(42.5, 30.8, 19.2);
28
29
      cout << "Area of BOX = " << box1.calculateArea() << endl;</pre>
      cout << "Volume of BOX = " << box1.calculateVolume() <<</pre>
          endl;
32
      return 0;
33
34 }
35 //excercise 1 is similar to this
```

```
© DM-27-ROOPHub-New-Lews × + v

Area of BOX = 1389
Volume of BOX = 25132.8

Process returned 0 (0x0)
press any key to continue.
```

### Exercise - 02

```
2 #include <iostream>
3 #include <string>
4 using namespace std;
6 class Batsman {
7 private:
      int batsman_code;
      string batsman_name;
      int total_innings;
10
11
      int notout_innings;
      int total_runs;
13
      float batting_avg;
14
      void calcavg() {
15
           if (total_innings - notout_innings != 0) {
16
17
               batting_avg = static_cast<float>(total_runs) / (
                    total_innings - notout_innings);
               batting_avg = 0; // To avoid division by zero
19
20
       }
21
22
23 public:
       // Function to accept values from user
24
      void readdata() {
25
           cout << "Enter batsman code (4 digits): ";</pre>
26
           cin >> batsman_code;
27
           cin.ignore();
28
           cout << "Enter batsman name: ";</pre>
29
           getline(cin, batsman_name);
           cout << "Enter total innings played: ";</pre>
           cin >> total_innings;
32
           cout << "Enter number of not-out innings: ";</pre>
33
           cin >> notout_innings;
34
           cout << "Enter total runs scored: ";</pre>
35
           cin >> total_runs;
36
           calcavg();
38
39
40
      void displaydata() const {
41
           cout << "\nBatsman Details:\n";</pre>
42
43
           cout << "Batsman Code: " << batsman_code << endl;</pre>
           cout << "Batsman Name: " << batsman_name << endl;</pre>
```

```
cout << "Total Innings: " << total_innings << endl;</pre>
45
           cout << "Not-out Innings: " << notout_innings << endl;</pre>
46
           cout << "Total Runs: " << total_runs << endl;</pre>
47
           cout << "Batting Average: " << batting_avg << endl;</pre>
48
49
50 };
51
52 int main() {
       Batsman player;
53
54
       // Accept and display the details of the batsman
55
       player.readdata();
56
       player.displaydata();
57
58
       return 0;
59
60 }
```

```
Enter batsman code (4 digits): 1234
Enter batsman name: Virat
Enter total innings played: 50
Enter number of not-out innings: 42
Enter total runs scored: 2000

Batsman Details:
Batsman Code: 1234
Batsman Name: Virat
Total Innings: 50
Not-out Innings: 42
Total Runs: 2000
Batting Average: 250

Process returned 0 (0x0) execution time: 36.807 s
Press any key to continue.
```

## Discussion

- The goal of this experiment was to get introduced to class and objects in OOP
- $\bullet$  The concept of private and public data members was learnt from this experiment
- Then the way of accessing private and public data and writing a program based on that was learnt.

# Experiment No-02: Constructor and Destructor in OOP

Md. Hasibul Islam Jihad; ID - 210804823/10/24

## Objective

- $\bullet$  Introduce the Constructor Class in C++.
- Define different types of constructors.
- Learn Constructor and Destructor in C++ with the help of examples.

Exercise - 01: Suppose you have a Savings Account with an initial amount of 500 and you have to add some more amount to it. Create a class 'AddMoney' with a data member named 'amount' with an initial value of 500. Now make two constructors of this class as follows:

- without any parameter no amount will be added to the Savings Account.
- having a parameter which is the amount that will be added to the Savings Account.

#### Code

```
1 #include<iostream>
using namespace std;
4 class AddMoney {
      private :
           double amount;
      public :
           AddMoney() {
               amount = 500;
9
10
11
           AddMoney (double additional Amount) {
               amount = 500 + additionalAmount;
13
14
           void displayAmount() {
15
               cout<<"Final amount : "<<amount<<endl;</pre>
16
17
18 };
19
20 int main()
21 {
       //object without any added amount
22
       AddMoney account1;
23
       account1.displayAmount();
24
25
       //object with an added amount
26
27
      AddMoney account2(200);
       account2.displayAmount();
28
29
       return 0;
30
31 }
```

```
© DMJT-200PMb-Zem-Lem × + v

Final amount : 500
Final amount : 700

Process returned 0 (0x0)

Press any key to continue.
```

Exercise - 02: Write a C++ Program to define a class Car with the following specifications: Class Specifications for Car Private members:

- car name: string typemodel name: string type
- ullet fuel type: string type
- mileage: float type
- price: double type

#### Public members:

- displaydata(): Function to display the data members on the screen.
- Use both default and parameterized constructors.
  - The default constructor will be called when no parameters are passed, and it will display the message:
    - "Default constructor has been called."
- Destructor to clean up when the object goes out of scope.

### $\mathbf{Code}$

```
2 #include <iostream>
3 #include <string>
4 using namespace std;
6 class Car {
7 private:
      string car_name;
      string model_name;
      string fuel_type;
10
      float mileage;
11
      double price;
12
13
14 public:
15
      // Default constructor
      Car() {
16
          car_name = "Audi";
17
          model_name = "Allstreet Avus Hatchback";
18
          fuel_type = "Premium";
19
          mileage = 20;
20
          price = 20000;
21
          cout << "Default constructor has been called." << endl;</pre>
22
      }
23
24
      // Parameterized constructor
25
      Car(string cn, string mn, string ft, float mil, double pr)
26
          {
          car_name = cn;
```

```
model_name = mn;
28
           fuel_type = ft;
29
           mileage = mil;
30
           price = pr;
31
           cout << "Parameterized constructor has been called." <<</pre>
                 endl;
       }
33
34
       // Destructor
35
       ~Car() {
36
           cout << "Destructor has been called for " << car_name</pre>
37
               << endl;
38
39
       // Function to display data members
40
       void displayData() {
41
           cout << "Car Name: " << car_name << endl;</pre>
42
           cout << "Model Name: " << model_name << endl;</pre>
           cout << "Fuel Type: " << fuel_type << endl;</pre>
           cout << "Mileage: " << mileage << " km/l" << endl;</pre>
45
           cout << "Price: $" << price << endl;</pre>
46
47
48 };
49
50 int main() {
       // Using the default constructor
51
       Car car1;
52
       car1.displayData();
53
       cout << endl;
54
55
       // Using the parameterized constructor
56
       Car car2("Toyota", "Corolla", "Petrol", 18.5, 20000);
       car2.displayData();
58
59
       return 0;
60
61 }
```

```
DNL-ZT-ZOOPUBD-ZNex-Zexx × + + v

Default constructor has been called.
Car Name: Audi
Model Name: Allstreet Avus Hatchback
Fuel Type: Premium
Mileage: 20 km/l
Price: $20000

Parameterized constructor has been called.
Car Name: Toyota
Model Name: Corolla
Fuel Type: Petrol
Mileage: 18.5 km/l
Price: $20000

Destructor has been called for Toyota
Destructor has been called for Audi
```

## Discussion

- The goal of this experiment was to get introduced to constructor and destructor in OOP and define them.
- Some bugs were found while executing the codes. They were fixed eventually with the help of the instructions from the terminal
- Through examples and exercises, the demonstration of constructor and destructor's working process with practical understanding of these essential object-oriented programming features in C++ were gained

# Experiment No-03:Static Data Member, and Function Overloading in C++

Md. Hasibul Islam Jihad; ID - 2108048 24/10/24

# Objective

- $\bullet\,$  Introduce with the Static Data Member and Member function.
- Understand the concept of function overloading in C++.

Exercise - 01: Write a C++ program to define a class Batsman with the following specifications:

- batsman ID: 6 digits roll number
- static member count: To keep track of the number of objects
- static function getcount(): Returns the value of count
- function getname(): To take batsman name as input
- function showname(): To show batsman name

Access all the data members and member functions using the objects of class Batsman.

```
1 #include<iostream>
2 using namespace std;
4 class Batsman {
5 private:
      int batsman_ID;
      string name;
      static int btscount;
9 public:
   Batsman() {
          btscount++;
11
12
13
      static int getcount() {
          return btscount;
15
16
17
      void getname() {
18
          cout << "Enter Batsman Name: ";</pre>
19
          cin >> name;
20
21
      void showname() {
```

```
cout << "Batsman Name: " << name << endl;</pre>
      }
25
26 };
27
28 int Batsman::btscount = 0;
30 int main() {
       cout << "Initially number of batsman: " << Batsman::</pre>
31
           getcount() << endl;</pre>
32
       int n;
33
       cout << "Enter number of entry: ";</pre>
34
       cin >> n;
35
36
       Batsman batsmen[n];
37
38
       for (int i = 0; i < n; i++) {</pre>
39
           batsmen[i].getname();
40
41
42
       cout << "Finally number of batsmen: " << Batsman::getcount</pre>
43
           () << endl;
44
       for (int i = 0; i < n; i++) {</pre>
45
           batsmen[i].showname();
46
47
48
       return 0;
49
50 }
```

```
Initially number of batsman: 0
Enter number of entry: 2
Enter Batsman Name: Root
Enter Batsman Name: Cook
Finally number of batsmen: 2
Batsman Name: Root
Batsman Name: Cook
Process returned 0 (0x0) execution time: 18.875 s
Press any key to continue.
```

Exercise - 02: Write a C++ Program to calculate the area of different geometric shapes such as Circle, Triangle, and Rectangle. Use function overloading. Class Name: Shape

```
2 #include<iostream>
3 using namespace std;
5 class Shape {
6 public:
      double area(double radius) {
           return 3.14159 * radius * radius;
9
10
11
      double area(double base, double height) {
          return 0.5 * base * height;
13
14
      double area(double length, double width, bool isRectangle)
15
          return length * width;
17
18 };
19
20 int main() {
       Shape shape;
21
22
      double rad;
      cout << "radius: ";</pre>
      cin >> rad;
      cout << "Area of the circle: " << shape.area(rad) << endl;</pre>
27
      double base, height;
28
      cout << "base and height: ";</pre>
      cin >> base >> height;
      cout << "Area of the triangle: " << shape.area(base, height</pre>
          ) << endl;
32
      double length, width;
33
      cout << "length and width: ";</pre>
34
      cin >> length >> width;
      cout << "Area of the rectangle: " << shape.area(length,</pre>
          width, true) << endl;
```

```
38     return 0;
39 }
```

```
radius: 4
Area of the circle: 50.2654
base and height: 4 5
Area of the triangle: 10
length and width: 4 5
Area of the rectangle: 20

Process returned 0 (0x0) execution time: 11.193 s
Press any key to continue.
```

## Discussion

- The goal of this experiment was to get introduced to static data members, functions and understand the concept of overloading.
- Some bugs were found while executing the codes. They were fixed eventually with the help of the instructions from the terminal
- Through examples and exercises, the concept of overloading was learnt and practical understanding of these essential object-oriented programming features in C++ were gained

# Experiment No-04:Inheritance in C++.

Md. Hasibul Islam Jihad; ID - 210804806/11/24

## Objective

- $\bullet\,$  Familiarize with Inheritance.
- Explain the concept of single and Multi level inheritance in OOP.
- Solve various problems in order to comprehend the above topics

Exercise - 01: Write a C++ program to add two numbers. Accept these two numbers from the user in base class and display the sum of these two numbers in derived class.

```
1 #include<iostream>
2 using namespace std;
4 class Input {
      protected :
          int a;
          int b;
     public :
         void num1(int n1) {
               a = n1;
10
11
12
          void num2(int n2){
13
              b = n2;
14
15
16 };
17
18 class Sum : public Input {
   public :
19
        int addSum() {
20
              return(a+b);
21
23 };
24
25 int main(void) {
      Sum s;
26
      s.num1(48);
27
      s.num2(52);
      cout<<"The sum is :"<<s.addSum()<<endl;</pre>
31
      return 0;
32 }
```

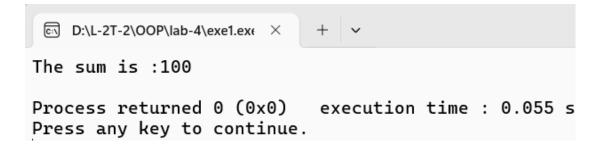
```
Enter marks for 5 subjects (Physics, Chemistry, Math, Biology, English):
Subject 1: 95
Subject 2: 95
Subject 3: 89
Subject 4: 92
Subject 5: 86
Total Marks = 457
Percentage = 91.4%

Process returned 0 (0x0) execution time : 15.426 s
Press any key to continue.
```

Exercise - 02: Write a C++ program to calculate the percentage of a student. Accept the marks of five subjects (Physics, Chemistry, Math, Biology, and English) in base class. A class will derived from the base class which includes a function to find the total marks obtained and another class derived from this first derived class which calculates and displays the percentage of student.

```
2 #include <iostream>
3 using namespace std;
5 class Marks {
6 protected:
     int marks[5];
9 public:
   void getMarks() {
        cout << "Enter marks for 5 subjects (Physics, Chemistry
             , Math, Biology, English): " << endl;
          for (int i = 0; i < 5; i++) {</pre>
              cout << "Subject " << i + 1 << ": ";
              cin >> marks[i];
          }
      }
17 };
19 class TotalMarks : public Marks {
20 protected:
      int total;
23 public:
24
      void calculateTotal() {
          total = 0;
25
          for (int i = 0; i < 5; i++) {</pre>
26
              total += marks[i];
27
      }
      int getTotal() {
31
         return total;
```

```
33 }
34 };
36 class Percentage : public TotalMarks {
37 public:
      void displayPercentage() {
         calculateTotal();
39
         float percentage = (float(total) / 500) * 100;
40
         cout << "Total Marks = " << total << endl;</pre>
41
          cout << "Percentage = " << percentage << "%" << endl;</pre>
42
      }
43
44 };
45
46 int main() {
     Percentage student;
47
      student.getMarks();
48
      student.displayPercentage();
49
51
      return 0;
52 }
```



## Discussion

- The goal of this experiment was to get introduced to the inheritance property in Object Oriented Programming
- Some bugs were found while executing the codes. They were fixed eventually with the help of the instructions from the IDE terminal
- Through examples and exercises, the concept of inheritance was learnt and practical understanding of these essential object-oriented programming features in C++ were gained.

# Experiment No-06: Friend Function and Friend Class in C++.

Md. Hasibul Islam Jihad; ID - 2108048 26/11/24

# Objective

- $\bullet\,$  To familiarize with friend class and function in C++ .
- To solve some problems using friend function

# Exercise - 01: Write a C++ Program to display the reverse of a number using the Friend function.

```
2 #include <iostream>
3 using namespace std;
5 class Number {
6 private:
      friend int reverseNumber(Number);
10 public:
      Number() {
11
      num = 0;
13
14
      void setNumber(int n) {
15
          num = n;
17
18 };
20 int reverseNumber(Number n) {
      int reversed = 0;
21
      while (n.num != 0) {
22
          reversed = reversed * 10 + (n.num % 10);
23
          n.num /= 10;
24
26
      return reversed;
27 }
28
29 int main() {
      Number n;
      int input;
31
      cout << "Enter a number: ";</pre>
33
      cin >> input;
34
35
      n.setNumber(input);
36
      cout << "Reversed Number: " << reverseNumber(n) << endl;</pre>
37
      return 0;
40 }
```

D:\L-2T-2\OOP\lab-6\exe.exe × + ~

Enter a number: 13 Reversed Number: 31

Process returned 0 (0x0) execution time : 19.561 s

Press any key to continue.

Exercise - 02: Write a C++ program to find the number and sum of all integer between 100 and 200 which are divisible by 11 with friend function

```
2 #include <iostream>
3 using namespace std;
5 class DivisibleBy11 {
6 private:
      int sum;
8 public:
     DivisibleBy11() {
          sum = 0;
11
      friend void findDivisibles(DivisibleBy11);
13
14 };
16 void findDivisibles(DivisibleBy11 obj) {
      cout << "Numbers divisible by 11 between 100 and 200: ";</pre>
      for (int i = 100; i <= 200; i++) {</pre>
18
          if (i % 11 == 0) {
19
              cout << i << " ";
20
               obj.sum += i;
21
          }
22
      cout << endl << "Sum: " << obj.sum << endl;</pre>
24
25 }
26
27 int main() {
     DivisibleBy11 obj;
     findDivisibles(obj);
      return 0;
31 }
```

© D:\L-2T-2\OOP\lab-6\exe2.ex × + ✓

Numbers divisible by 11 between 100 and 200: 110 121 132 143 154 165 176 187 198 Sum: 1386

Process returned 0 (0x0)  $\,$  execution time : 0.052 s Press any key to continue.

Exercise - 03: Write a program in C++ to Check Whether a Number can be expressed as Sum of Two Prime Numbers using the friend functionn

```
2 #include <iostream>
3 using namespace std;
5 class Number {
6 private:
      int num;
      friend class PrimeCheck;
10 public:
      Number() {
11
          num = 0;
12
13
      void setNumber(int n) {
15
           num = n;
17
18 };
20 class PrimeCheck {
21 public:
      bool isPrime(int n) {
           if (n <= 1) return false;</pre>
           for (int i = 2; i <= n / 2; i++) {</pre>
               if (n % i == 0) return false;
25
26
           return true;
27
28
29
      void checkSum(Number obj) {
30
           bool found = false;
31
           cout << "Checking if " << obj.num << " can be expressed</pre>
                as the sum of two prime numbers:" << endl;
           for (int i = 2; i <= obj.num / 2; i++) {</pre>
                if (isPrime(i) && isPrime(obj.num - i)) {
34
                    cout << obj.num << " = " << i << " + " << obj.
35
                        num - i << endl;</pre>
                    found = true;
36
37
           if (!found) {
                cout << obj.num << " cannot be expressed as the sum</pre>
```

```
of two prime numbers." << endl;
41
      }
42
43 };
45 int main() {
      Number obj;
46
      PrimeCheck checker;
47
48
       int input;
49
       cout << "Enter a number: ";</pre>
      cin >> input;
51
52
      obj.setNumber(input);
53
      checker.checkSum(obj);
54
55
      return 0;
56
57 }
```

```
Enter a number: 48
Checking if 48 can be expressed as the sum of two prime numbers: 48 = 5 + 43
48 = 7 + 41
48 = 11 + 37
48 = 17 + 31
48 = 19 + 29
```

## Discussion

- The goal of this experiment was to get introduced to Friend Function and Frienc Friend class in Object Oriented Programming.
- Some bugs were found while executing the codes. They were fixed eventually with the help of the instructions from the IDE terminal
- Through examples and exercises, the concept of inheritance was learnt and practical understanding of these essential object-oriented programming features in C++ were gained.

# Experiment No-07: Operator Overloading in C++.

Md. Hasibul Islam Jihad; ID - 210804811/12/24

## Objective

- $\bullet$  To understand operator overloading in C++.
- To implement operator overloading using the Friend function.

# Exercise - 01: Define a class Distance with distances in feet and inch and with a print function to print the distance.

- Overload the < operator to compare two distances using a member function.
- Overload the + operator to add two distances using a friend function.

```
1 #include <iostream>
2 using namespace std;
4 class Complex {
5 private:
      float real;
      float imag;
9 public:
      Complex() {
10
          real = 0;
11
           imag = 0;
12
13
14
      void input() {
          cin >> real >> imag;
17
18
      Complex operator+(Complex c) {
19
          Complex temp;
20
           temp.real = real + c.real;
21
           temp.imag = imag + c.imag;
           return temp;
23
24
25
      void output() {
26
          if (imag < 0)
27
               cout << real << imag << "i" << endl;</pre>
28
           else
              cout << real << "+" << imag << "i" << endl;
31
32 };
33
34 int main() {
      Complex c1, c2, result;
      c1.input();
      c2.input();
```

```
result = c1 + c2;
result.output();
return 0;
return 0;
```

```
D:\L-2T-2\OOP\lab-7\exe1.exe \times + \times

Distance 1: 5 feet 8 inches

Distance 2: 3 feet 4 inches

Distance 1 is not less than Distance 2

Sum of Distances: 9 feet 0 inches

Process returned 0 (0x0) execution time: 0.091 s

Press any key to continue.
```

Exercise - 02: Write a C++ program to Overload the - operator to subtract two complex numbers.

```
1 #include <iostream>
2 using namespace std;
4 class Complex {
5 private:
      float real;
      float imag;
9 public:
      Complex() {
          real = 0;
11
           imag = 0;
12
13
14
      void input() {
         cin >> real >> imag;
16
17
18
      Complex operator-(Complex c) {
19
           Complex temp;
20
           temp.real = real - c.real;
^{21}
           temp.imag = imag - c.imag;
           return temp;
23
24
25
      void output() {
26
           if (imag < 0)
27
               cout << real << imag << "i" << endl;</pre>
           else
              cout << real << "+" << imag << "i" << endl;
31
32 };
33
34 int main() {
      Complex c1, c2, result;
       c1.input();
36
       c2.input();
37
      result = c1 - c2;
38
      result.output();
39
      return 0;
40
41 }
```

```
enter the real parts:
5 6
enter the imaginary number:
3 4
the subtraction yields:
2 + 2i

Process returned 0 (0x0) execution time: 4.846 s
Press any key to continue.
```

## Discussion

- The goal of this experiment was to get introduced to the Friend Function and Friend Class in Object-Oriented Programming.
- Some bugs were found while executing the codes. They were fixed eventually with the help of the instructions from the IDE terminal.
- Through examples and exercises, the concept of inheritance was learned and practical understanding of these essential object-oriented programming features in C++ were gained.