#include <iostream>

using namespace std;

class Complex {

public:

int real, imaginary;

Complex(int r = 0, int i = 0)

{

real = r;

imaginary =i;

}

Complex add(Complex C1, Complex C2)

{

Complex obj;

obj.real = C1.real + C2.real;

obj.imaginary = C1.imaginary + C2.imaginary;

return obj;

}

Complex multi(Complex C1,Complex C2)

{

Complex obj;

obj.real=C1.real\*C2.real - C1.imaginary\*C2.imaginary;

obj.imaginary=C1.real\*C2.imaginary + C2.real\*C1.imaginary;

return obj;

}

};

int main()

{

Complex c;

cout<<"Default Complex number:"<<c.real<<" + "<<c.imaginary<<" i "<<endl;

Complex C1(7, 2);

cout<<"Complex number 1 : "<< C1.real<< " + "<< C1.imaginary<<" i "<<endl;

Complex C2(4, 5);

cout<<"Complex number 2 : "<< C2.real<< " + "<< C2.imaginary<<" i "<<endl;

Complex C3;

C3 = C3.add(C1, C2);

cout<<"Sum of complex number : "<< C3.real << " + "<< C3.imaginary<<" i "<<endl;

Complex C4;

C4=C4.multi(C1,C2);

cout<<"Multiplication of complex number : "<< C4.real << " + " << C4.imaginary<<" i "<<endl;

}

Output:

Graphical user interface, text, application

Description automatically generated