**Practical no.-**17.1

**Title:** Program to overload + operators using friend function to add two complex numbers

**Roll No.:** 76 **Batch-** C

**Code:**

#include <iostream>

using namespace std;

class complex

{

private:

float real,imag;

public:

void getno()

{cout<<"Enter real and imaginary parts : "; cin>>real>>imag;}

void putno()

{cout<<real<<"+"<<imag<<"i";}

// Operator friend function to overload + operator

friend complex operator + (complex c1, complex c2);

};

//Friend operator function definition to overload + operator

complex operator + (complex c1, complex c2)

{complex c;

c.real=c1.real+c2.real;

c.imag=c1.imag+c2.imag;

return c;}

//Main function

int main()

{

complex c1,c2,c3; //create objects

cout<<"Enter first complex number:\n ";

c1.getno();

cout<<"Enter second complex number:\n ";

c2.getno();

//Add two complex numbers

c3=c1+c2; //Call operator + function

cout<<"\nSum of complex numbers: ";

c3.putno();

return 0;

}

**OUTPUT-**

Enter first complex number:

Enter real and imaginary parts : 5 8

Enter second complex number:

Enter real and imaginary parts : 11 2.5

Sum of complex numbers: 16+10.5i

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