**PROGRAMS :** Write a program to implement a class ‘Complex Nos’ with data members(real,imag).

Include parameterised and copy constructors to initialize data members and also

include members functions to compute and display the sum and difference of complex

nos.

#include<iostream>

using namespace std;

class complexnos

{

int real;

int imagine;

public:

complexnos(int rea=0,int ima=0){

real=rea;

imagine=ima;

}

complexnos(complexnos &c){

real=c.real;

imagine=c.imagine;

}

void sum(complexnos &c){

cout<<"Adding the complex numbers:"<<endl;

cout<<real+c.real<<"+("<<imagine+c.imagine<<")i"<<endl;

}

void sub(complexnos c){

cout<<"Subtracting the complex numbers:"<<endl;

cout<<real-c.real<<"+("<<imagine-c.imagine<<")i"<<endl;

}

};

int main(){

int real,ima;

cout<<"Enter the real and imaginary part of the complex number"<<endl;

cin>>real>>ima;

complexnos c1(real,ima);

complexnos c2(c1);

complexnos c3(9,10);

cout<<"Initialized c3 as real=9 imaginary = 10"<<endl;

c1.sum(c2);

c1.sub(c2);

c2.sum(c3);

c2.sub(c3);

return 0;

}

Input/Output:

