**CS304p Assignment Solution 1 Spring 2022**

#include<iostream>

using namespace std;

class Complex

{

private:

int real, image;

public:

Complex(){

real = 0;

image = 0;

}

Complex(Complex &obj)

{

real = obj.real;

image = obj.image;

}

void get\_data(){

cout<<"Enter complex number:"<<endl;

cout<<"Real = ";

cin>>real;

cout<<"Imaginary = ";

cin>>image;

}

void display\_data(){

cout<<real<< " + "<<image<<"i"<<endl;

}

void add\_Complex(Complex &obj);

void sub\_Complex(Complex &obj);

};

int main(){

Complex obj;

obj.get\_data();

cout<<"1st Complex number is : "<<endl;

obj.display\_data();

Complex obj1(obj);

cout<<"2nd Complex number is : "<<endl;

obj1.display\_data();

obj1.add\_Complex(obj);

obj1.sub\_Complex(obj);

}

void Complex::add\_Complex(Complex &obj){

Complex temp;

temp.real = real + obj.real;

temp.image = image + obj.image;

cout<<"Addition of complex number is : ";

cout<<temp.real<<" + "<<temp.image<<"i"<<endl;

}

void Complex:: sub\_Complex(Complex &obj){

Complex temp;

temp.real = real - obj.real;

temp.image = image - obj.image;

cout<<"Subtraction of complex number is : ";

cout<<temp.real<<" + "<<temp.image<<"i"<<endl;

}