**C++ Program to add Complex Numbers by passing Structure to a Function.**

**#include<iostream>**

**using namespace std;**

**struct complex**

**{**

**int a,b,c,d,f1,f2,f3;**

**};**

**void sum(int p,int q,int r,int s)**

**{**

**int x,y;**

**cout<<"sum of two complex no is: "<<endl;**

**cout<<endl;**

**cout<<"f1+f2 = ("<<p<<" + "<<q<<"i) + ("<<r<<" + "<<s<<"i) "<<endl;**

**cout<<endl;**

**cout<<"the sum of complex no is: f3 = ("<<p<<" + "<<r<<") + ("<<q<<"+"<<s<<")i"<<endl;**

**cout<<endl;**

**x=p+r;**

**y=q+s;**

**cout<<"the sum of complex no is: f3 = ("<<x<<") + ("<<y<<")i"<<endl;**

**}**

**main()**

**{**

**struct complex s;**

**cout<<"enter the value of real part of two no: a & c: ";**

**cin>>s.a>>s.c;**

**cout<<"enter the value of img part of two no: b & d: ";**

**cin>>s.b>>s.d;**

**cout<<"f1 = "<<s.a<<" + "<<s.b<<"i"<<endl;**

**cout<<"f2 = "<<s.c<<" + "<<s.d<<"i"<<endl;**

**cout<<endl;**

**sum(s.a,s.b,s.c,s.d);**

**}**