Assignment no 1

#include<iostream> using namespace std;

class complex{ public: float real,img; complex(){

}

complex operator+(complex); complex operator\*(complex); friend ostream&operator<<(ostream&,complex&); friend istream&operator<<(istream&,complex&);

};

complex complex ::operator + (complex obj){ complex temp; temp.real=real+obj.real; temp.img=img+obj.img; return(temp);

}

istream &operator >>(istream &is,complex &obj){

is>>obj.real; is>>obj.img; return is;

}

ostream &operator<<(ostream &ou ,complex &obj){ ou <<""<<obj.real; ou <<"+"<<obj.img<<"i"; return ou ;

}

complex complex :: operator \*(complex obj){ complex temp; temp.real=real\*obj.real-img\*obj.img; temp.img=real\*obj.img+img\*obj.real; return(temp);

}

int main(){

int ch; char ans; complex a,b,c,d; do{

cout<<"\n\tArithme c opera ons"; cout<<"\n\t1.Add on="; cout<<"\n\t2.Mil plica on="; cout<<"\nEnter your choice:"; cin>>ch; switch(ch){

case 1:

cout<<"\n\tAddi on"; cout<<"\nEnter first complex number\n"; cout<<"\nEnter real and imaginary:\t"; cin>>a;

cout<<"Enter second complex number \n"; cout<<"\nEnter real and imaginary:\t"; cin>>b; c= a+b; cout<<c; break;

case 2:

cout<<"\n\tMul plica on"; cout<<"\nEnter first complex number\n "; cout<<"\nEnter real and imaginary:\t"; cin>>a;

cout<<"Enter second complex number\n"; cout<<"\nEnter real and imaginary:\t"; cin>>b; d= a\*b; cout<<d; break;

}

cout<<endl; cout<<"\nDo you want to go to main menu="; cin>>ans; }while(ans=='y' || ans == 'y'); return 0;

}