```
#include <iostream>
using namespace std;
class complex{
    public:
        double real, img;
        complex()
            real=0;
            img=0;
        }
        complex(double r, double i)
            real = r;
            img = i;
        void display();
        complex operator + (complex &obj)
            complex ans;
            ans.real = this->real + obj.real;
            ans.img = this->img + obj.img;
            return ans;
        }
        complex operator - (complex &obj)
            complex ans;
            ans.real = this->real - obj.real;
            ans.img = this->img - obj.img;
            return ans;
        complex operator * (complex &c1)
            complex ans;
            ans.real = this->real * c1.real-this->img * c1.img;
            ans.img = this->real * c1.img+this->img * c1.real;
            return ans;
        complex operator / (complex &c1)
            complex ans;
            int deno = c1.real*c1.real + c1.img*c1.img;
            ans.real = (real*c1.real + img*c1.img)/deno;
            ans.img = (img*c1.real - real*c1.img)/deno;
            return ans;
        }
```

```
void complex::display()
    cout<<"("<<real<<"+"<<img<<"i""<<")";</pre>
int main(){
    char yesno;
    do{
        int real, img;
        cout<<"enter real part n1:"<<endl;</pre>
        cin>>real;
        cout<<"enter imaginary part n1:"<<endl;</pre>
        cin>>img;
        complex n1(real,img);
        cout<<"enter real part n2:"<<endl;</pre>
        cout<<"enter imaginary part of n2:"<<endl;</pre>
        cin>>img;
        complex n2(real, img);
        char op;
        cout<<"enter operator";</pre>
        cin>>op;
        switch(op){
             n1.display(); cout<<"+"; n2.display(); cout<<"=";</pre>
(n1+n2).display();
             break;
             n1.display(); cout<<"-"; n2.display(); cout<<"="; (n1-</pre>
n2).display();
             break;
             case '*':
             n1.display(); cout<<"*"; n2.display(); cout<<"=";</pre>
(n1*n2).display();break;
             n1.display(); cout<<"/"; n2.display(); cout<<"=";</pre>
(n1/n2).display();break;
        cout<<"Do you want to continue(y/n):";</pre>
         cin>>yesno;
    while(yesno == 'y');
```