## Qn1: WAP to add two complex number (a+ib) using operator overloading.

## Code:

```
#include<iostream>
using namespace std;
class Complex{
int real, imag;
public:
    Complex(int r=0, int i=0) {
    real=r;
    imag=i;
    Complex operator+(Complex c) {
    Complex temp;
    temp.real=real+c.real;
    temp.imag=imag+c.imag;
    return temp;
    void display() {
    cout<<"Result:"<<real<<"+"<<imag<<"i"<<endl;
};
int main() {
    int x, y, a, b;
    cout << "Enter the first real and imaginary number: ";
    cin>>x>>y;
    cout<<"Enter the second real and imaginary number:";</pre>
    cin>>a>>b;
Complex c1(x,y),c2(a,b),result;
result=c1+c2;
result.display();
Output:
Enter the first real and imaginary number:5
Enter the second real and imaginary number:4
Result:9+14i
Qn2: Increment using ++ overload
```

## Code:

```
#include<iostream>
using namespace std;
```

```
class Number{
private:
  int value;
public:
  Number(int val=0):value(val){}
  Number operator++(){
  Number temp;
  temp.value=++value;
  return temp;
  }
  void display()const{
  cout<<"Value:"<<value<<endl;
  }
  };
  int main(){
  int n;
  cout<<"Enter the value:";
  cin>>n;
  Number num(n);
  cout<<"Original value:";</pre>
  num.display();
  ++num;
  cout<<"After ++num:";
  num.display();
  Number num2=++num;
  cout<<"After num2=++num."<<endl;</pre>
  num2.display();
  return 0;
  }
```

## Output:

Enter the value:8 Original value:Value:8 After ++num:Value:9 After num2=++num.

Value:10