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```
1 /*
2 Assignment 9
3 Write a program to overload binary operators (<<, >>) for accepting and displaying
4 Name-Dev Sarode
5 Division-12
6 Roll no-11260
7 Date-22/04/2025
8 */
9
10 #include <iostream>
11 #include <string>
12 using namespace std;
13
14 class Complex {
15 private:
16     int real;
17     int imag;
18
19 public:
20     Complex(){
21         real = 0;
22         imag = 0;
23     }
24
25     friend istream& operator>>(istream& in,Complex &c);
26     friend ostream& operator<<(ostream& out,const Complex &c);
27 };
28
29 istream& operator>>(istream& in,Complex &c) {
30     cout<<"Enter real part: ";
31     in>>c.real;
32
33     cout<<"Enter imaginary part: ";
34     in>>c.imag;
35
36     return in;
37 }
```

C++ Tab Width: 8 Ln 25, Col 52 INS

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```
14 class Complex {
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16     int real;
17     int imag;
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19 public:
20     Complex(){
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25     friend istream& operator>>(istream& in,Complex &c);
26     friend ostream& operator<<(ostream& out,const Complex &c);
27 };
28
29 istream& operator>>(istream& in,Complex &c) {
30     cout<<"Enter real part: ";
31     in>>c.real;
32
33     cout<<"Enter imaginary part: ";
34     in>>c.imag;
35
36     return in;
37 }
38
39 ostream& operator<<(ostream& out,const Complex &c) {
40     out<<"Complex number is: "<<c.real<<"+"<<c.imag<<"i";
41     return out;
42 }
43
44 int main() {
45     Complex c1;
46     cin >> c1;
47     cout << c1;
48     return 0;
49 }
50
```

C++ Tab Width: 8 Ln 25, Col 52 INS

```
fe@pict-OptiPlex-3020:~/11260$ g++ Assignment8.cpp
fe@pict-OptiPlex-3020:~/11260$ ./a.out
Enter real part: 5
Enter imaginary part: 6
fe@pict-OptiPlex-3020:~/11260$
```