```
#include<iostream>
   using namespace std;
 3
   class CDemo
 4
 5
 6
        int m iNo1;
 7
        int m iNo2;
 8
 9
        public:
10
        CDemo(int iNo1 = 10, int iNo2 = 20)
11
            m iNo1 = iNo1;
12
            m iNo2 = iNo2;
13
14
15
        friend CDemo operator + (CDemo &, CDemo &);
16
17
        friend CDemo operator - (CDemo &, CDemo &);
        friend CDemo operator *(CDemo &, CDemo &);
18
19
        friend CDemo operator / (CDemo &, CDemo &);
20
        friend CDemo operator << (CDemo &, CDemo &);
        friend CDemo operator >> (CDemo &, CDemo &);
        friend CDemo& operator +=(CDemo &, CDemo &);
23
        friend bool operator == (CDemo &, CDemo &);
24
        friend bool operator <(CDemo &, CDemo &);</pre>
25
        friend bool operator > (CDemo &, CDemo &);
26
    } ;
27
28
   CDemo operator +(CDemo &refObj1, CDemo &refObj2)
29
        cout<<"In binary + operator\n\n";</pre>
30
31
        return CDemo(refObj1.m iNo1 + refObj2.m iNo1, refObj1.m iNo2 + refObj2.m iNo2);
32
33
    CDemo operator -(CDemo &refObj1, CDemo &refObj2)
34
35
        cout<<"In binary - operator\n\n";</pre>
36
37
        return CDemo(refObj1.m iNo1 - refObj2.m iNo1, refObj1.m iNo2 - refObj2.m iNo2);
38
    }
39
40
    CDemo operator *(CDemo &refObj1, CDemo &refObj2)
41
42
        cout<<"In binary * operator\n\n";</pre>
43
        return CDemo(refObj1.m iNo1 * refObj2.m iNo1, refObj1.m iNo2 * refObj2.m iNo2);
44
    }
45
    CDemo operator / (CDemo &refObj1, CDemo &refObj2)
46
47
        cout<<"In binary / operator\n\n";</pre>
48
        return CDemo(refObj1.m iNo1 / refObj2.m iNo1, refObj1.m iNo2 / refObj2.m iNo2);
49
50
    }
51
52
   CDemo operator <<(CDemo &refObj1, CDemo &refObj2)</pre>
53
        cout<<"In binary << operator\n\n";</pre>
54
        return CDemo(refObj1.m iNo1 << refObj2.m iNo1, refObj1.m iNo2 << refObj2.m iNo2);</pre>
55
56
57
    CDemo operator >>(CDemo &refObj1, CDemo &refObj2)
58
59
60
        cout<<"In binary >> operator\n\n";
61
        return CDemo(refObj1.m_iNo1 >> refObj2.m_iNo1, refObj1.m_iNo2 >> refObj2.m_iNo2);
62
    }
63
64
    CDemo& operator +=(CDemo &refObj1, CDemo &refObj2)
65
        cout<<"In binary += operator\n\n";</pre>
66
        refObj1.m iNo1 += refObj2.m iNo1;
67
```

```
refObj1.m iNo2 += refObj2.m iNo2;
 68
         return refObj1;
 69
 70
     }
 71
 72
     bool operator == (CDemo &refObj1, CDemo &refObj2)
 73
         cout<<"In binary == operator\n";</pre>
 74
         return ((refObj1.m iNo1 == refObj2.m iNo1) && (refObj1.m iNo2 == refObj2.m iNo2));
 75
 76
 77
     bool operator <(CDemo &refObj1, CDemo &refObj2)</pre>
 78
 79
         cout<<"In binary < operator\n";</pre>
 80
         return ((refObj1.m iNo1 < refObj2.m iNo1) && (refObj1.m iNo2 < refObj2.m iNo2));
 81
 82
 83
     bool operator > (CDemo &refObj1, CDemo &refObj2)
 84
 8.5
         cout<<"In binary > operator\n";
 86
 87
         return ((refObj1.m iNo1 > refObj2.m iNo1) && (refObj1.m iNo2 > refObj2.m iNo2));
 88
 89
 90
    int main()
 91
 92
 93
         CDemo obj1, obj2, obj3;
 94
         obj3 = obj1 + obj2; // obj1 + obj2 => +(obj1, obj2);
 95
 96
 97
         obj3 = obj1 - obj2;
 98
         obj3 = obj1 * obj2;
99
100
         obj3 = obj1 / obj2;
101
102
         obj1 << obj2;
103
104
         obj1 >> obj2;
105
106
107
         obj2 += obj1;
108
109
         if(obj1 == obj2)
110
              cout<<"Both objects are equal\n\n"<<endl;</pre>
111
              cout<<"Both objects are not equal\n\n"<<endl;</pre>
112
113
         if(obj1 < obj2)
114
115
              cout<<"obj1 is less than obj2\n\n"<<endl;</pre>
         else
116
              cout<<"obj1 is greater than obj2\n\n"<<endl;</pre>
117
118
         if(obj1 > obj2)
119
              cout<<"obj1 is greater than obj2\n\n"<<endl;</pre>
120
121
              cout<<"obj1 is less than obj2\n\n"<<endl;</pre>
122
123
         return 0;
124
125
     }
126
```