```
#include<iostream>
   using namespace std;
   class CDemo
 5
 6
        int m iNo1;
 7
        int m iNo2;
 8
 9
    public:
        CDemo(int iNo1 = 10, int iNo2 = 20)
10
11
12
             m iNo1 = iNo1;
            m iNo2 = iNo2;
13
14
1.5
16
        CDemo* This()
17
        {
            return this;
18
19
        }
20
        friend CDemo& operator +(CDemo &refObj);
        friend CDemo operator -(CDemo &refObj);
23
        friend CDemo operator ~ (CDemo &refObj);
24
        friend CDemo* operator &(CDemo &refObj);
25
        friend CDemo& operator ++(CDemo &refObj);
        friend CDemo operator ++(CDemo &refObj, int);
27
        friend CDemo& operator --(CDemo &refObj);
28
        friend CDemo operator -- (CDemo &refObj, int);
29
   } ;
30
   CDemo& operator +(CDemo &refObj)
31
32
33
        cout<<"In unary + operator\n";</pre>
34
        return refObj;
35
    }
36
37
    CDemo operator -(CDemo &refObj)
38
39
        cout<<"In unary - operator\n";</pre>
40
        return CDemo(-refObj.m iNo1, -refObj.m iNo2);
41
    }
42
43
   CDemo operator ~ (CDemo &refObj)
44
        cout<<"In unary ~ operator\n";</pre>
4.5
        return CDemo(~refObj.m_iNo1, ~refObj.m_iNo2);
46
47
    }
48
   CDemo* operator &(CDemo &refObj)
49
50
        cout<<"In unary & operator\n";</pre>
51
        return refObj.This();
52
    }
53
54
   CDemo& operator ++(CDemo &refObj)
55
56
57
        cout<<"In Pre-increment operator\n";</pre>
58
        refObj.m iNo1++;
59
        refObj.m iNo2++;
60
        return refObj;
61
    }
62
63
   CDemo operator ++(CDemo &refObj, int)
64
65
        cout<<"In Post-increment operator\n";</pre>
        CDemo temp(refObj.m iNo1,refObj.m iNo2);
66
67
        refObj.m_iNo1++;
```

```
refObj.m iNo2++;
 68
 69
          return temp;
 70
     }
 71
 72
     CDemo& operator --(CDemo &refObj)
 73
          cout<<"In Pre-decrement operator\n";</pre>
 74
          refObj.m iNo1--;
 75
         refObj.m iNo2--;
 76
          return refObj;
 77
 78
     }
 79
     CDemo operator --(CDemo &refObj, int)
 80
 81
          cout<<"In Post-decrement operator\n";</pre>
 82
          CDemo temp(refObj.m iNo1,refObj.m iNo2);
 83
 84
          refObj.m_iNo1--;
          refObj.m_iNo2--;
 85
 86
          return temp;
 87
     }
 88
 89
     int main()
 90
         CDemo obj;
 91
 92
                 // +(obj);
         +obj;
 93
 94
 95
         -obj;
 96
         ~obj;
 97
 98
 99
         ++obj;
100
         obj++;
101
102
         --obj;
103
104
105
         obj--;
106
107
          cout << &obj;
108
109
         return 0;
110
111
```