```
#include <iostream>
    #include <iomanip>
    using std::cout;
    using std::endl;
    using std::setw;
 6
 7
    class demo
 8
 9
        char chChar;
10
        int iNo;
        float fNo;
11
        double dNo;
12
13
        int *pPtr1;
14
        int *pPtr2;
15
16
    public:
17
         demo()
18
19
         {
             chChar = ' \setminus 0';
20
21
             iNo = 0;
             fNo = 0.0f;
23
             dNo = 0.0;
24
25
             pPtr1 = NULL;
26
27
             pPtr2 = new int[3];
             if(NULL == pPtr2)
28
29
                  cout << "Memory allocation FAILED\n";</pre>
30
31
                  return;
             }
             /*
34
35
             for(int iCounter = 0; iCounter < 3; iCounter++)</pre>
                  pPtr2[iCounter] = 0;
36
37
38
39
             memset(pPtr2, 0, 3 * sizeof(int));
40
         }
41
42
         ~demo()
43
             chChar = ' \setminus 0';
44
45
             iNo = 0;
             fNo = 0.0f;
46
             dNo = 0.0;
47
48
49
             pPtr1 = NULL;
50
51
             if(pPtr2 != NULL)
52
                  delete []pPtr2;
53
                 pPtr2 = NULL;
55
             }
56
         }
57
58
         void set(char chParam, int iParam, float fParam, double dParam)
59
60
             chChar = chParam;
             iNo = iParam;
61
             fNo = fParam;
62
             dNo = dParam;
63
64
65
             pPtr1 = \&iNo;
66
             if(pPtr2 != NULL)
67
```

```
{
 68
                    for(int iCounter = 0; iCounter < 3; iCounter++)</pre>
 69
                        pPtr2[iCounter] = iParam + iCounter + 1;
 70
 71
               }
 72
          }
 73
 74
          void get()
 75
               cout << "Character is " << chChar << endl;</pre>
 76
               cout << "Integer is " << iNo << endl;</pre>
 77
               cout << "Float is " << fNo << endl;</pre>
 78
               cout << "Double is " << dNo << endl;</pre>
 79
 80
               cout << "&iNo is " << &iNo << endl;</pre>
 81
               cout << "pPtr1 is " << pPtr1 << endl;</pre>
 82
 83
               if(pPtr1 != NULL)
                    cout << "*pPtr1 is " << *pPtr1 << endl;</pre>
 84
 85
               cout << "pPtr2 is " << pPtr2 << endl;</pre>
 86
               cout << "pPtr2 values are :\n";</pre>
 87
               if(pPtr2 != NULL)
 89
                    for(int iCounter = 0; iCounter < 3; iCounter++)</pre>
 90
 91
                        cout << pPtr2[iCounter] << setw(20);</pre>
 92
                    cout << endl;</pre>
 93
               }
 94
          }
 95
     };
 96
 97
     int main(void)
 98
 99
          demo obj1;
100
          cout << "OBJ1:\n";</pre>
101
          obj1.get();
102
          obj1.set('A', 10, 57.33f, 69.33);
103
104
          cout << "\nOBJ1:\n";</pre>
105
          obj1.get();
106
107
          demo obj2 = obj1;
108
          cout << "\nOBJ2:\n";</pre>
109
          obj2.get();
110
          demo obj3;
111
          obj3 = obj1;
112
          cout << "\nOBJ3:\n";</pre>
113
          obj3.get();
114
115
116
          cout << "Done\n";</pre>
117
118
          return 0;
119
     }
120
```