```
1: #include <iostream>
 2: #include <vector>
 3: #include <map>
 4: using namespace std;
 6: // Topic 10 >> Iterators: Sample code
 7:
 8: class Point
9: {
10: private:
        int x, y;
12:
13: public:
14:
        Point(int _x = 0, int _y = 0) : x(_x), y(_y) {}
15:
        int getX() const { return x; }
        int getY() const { return y; }
16:
17: };
18:
19: int main()
20: {
21:
        vector<int> numbers;
22:
        numbers.push_back(1);
23:
        numbers.push_back(2);
24:
        numbers.push_back(3);
25:
        //without iterator
26:
        for (int i = 0; i < numbers.size(); i++)</pre>
27:
28:
            cout << numbers[i] << "\t";</pre>
29:
        cout << endl;</pre>
30:
31:
        //with iterator
32:
        vector<int>::iterator i;
33:
        for (i = numbers.begin(); i != numbers.end(); i++)
34:
            cout << *i << "\t";
35:
        cout << endl;</pre>
36:
37:
        vector<Point> points;
38:
        points.push_back(Point(1, 2));
39:
        points.push_back(Point(11, 22));
40:
        points.push_back(Point(41, 32));
41:
42:
        // work with objects without iterator
43:
        for (int i = 0; i < points.size(); i++)</pre>
            cout << "x=" << points[i].getX() << "\ty=" << points[i].getY() << endl;</pre>
44:
45:
46:
        // work with objects with iterator
47:
        vector<Point>::iterator p;
48:
        for (p = points.begin(); p != points.end(); p++)
49:
            cout << "x=" << (*p).getX() << "\ty=" << p->getY() << endl;</pre>
50:
51:
        map<string, int> days;
52:
        days["mon"] = 1;
53:
        days["tue"] = 2;
54:
55:
        map<int, string> hari;
        hari[1] = "isnin";
56:
        hari[5] = "jumaat";
57:
58:
59:
        map<string, int>::iterator d;
60:
        for (d = days.begin(); d != days.end(); d++)
```