```java
1   class NitCollection{
2       private Object[ ] objArray=new Object[10];
3       private int index=0;
4
5   public void add(Object obj) {
6
7        if(size()==capacity()){
8            increaseCapacity();
9         }
10
11       objArray[index]=obj;
12        index++;
13      }
14
15   void increaseCapacity () {
16       Object [ ] nextArray = new Object [capacity()*2];
17
18       for (int i=0; i<objArray.length; i++) {
19       nextArray [i]=objArray[i];
20      }
21
22       objArray=nextArray;
23      }
24
25       int size() {
26           return index;
27      }
28
29       int capacity ()
30       {
31           return objArray.length;
32      }
33   }
34
35     class TestNITCollection {
```

```java
36    public static void main(String[] args) {
37    NitCollection nc1=new NitCollection();
38
39    System.out.println("capacity  : "+nc1.capacity());
40    System.out.println("capacity  : "+nc1.size());
41    nc1.add("a");
42
43    System.out.println("capacity  : "+nc1.capacity());
44    System.out.println("capacity  : "+nc1.size());
45    nc1.add("b");
46
47    System.out.println("capacity  : "+nc1.capacity());
48    System.out.println("capacity  : "+nc1.size());
49    nc1.add("c");
50
51    System.out.println("capacity  : "+nc1.capacity());
52    System.out.println("capacity  : "+nc1.size());
53    nc1.add("d");
54
55    System.out.println("capacity  : "+nc1.capacity());
56    System.out.println("capacity  : "+nc1.size());
57    nc1.add("e");
58
59    System.out.println("capacity  : "+nc1.capacity());
60    System.out.println("capacity  : "+nc1.size());
61    nc1.add("f");
62
63    System.out.println("capacity  : "+nc1.capacity());
64    System.out.println("capacity  : "+nc1.size());
65     nc1.add("g");
66
67    System.out.println("capacity  : "+nc1.capacity());
68    System.out.println("capacity  : "+nc1.size());
69    nc1.add("h");
70
```

```java
71        System.out.println("capacity  : "+nc1.capacity());
72        System.out.println("capacity  : "+nc1.size());
73        nc1.add("i");
74
75        System.out.println("capacity  : "+nc1.capacity());
76        System.out.println("capacity  : "+nc1.size());
77        nc1.add("j");
78
79        System.out.println("capacity  : "+nc1.capacity());
80        System.out.println("capacity  : "+nc1.size());
81         nc1.add("k");
82
83        System.out.println("capacity  : "+nc1.capacity());
84        System.out.println("capacity  : "+nc1.size());
85        nc1.add("l");
86
87        System.out.println("capacity  : "+nc1.capacity());
88        System.out.println("capacity  : "+nc1.size());
89        nc1.add("m");
90
91        System.out.println("capacity  : "+nc1.capacity());
92        System.out.println("capacity  : "+nc1.size());
93        nc1.add("n");
94
95        System.out.println("capacity  : "+nc1.capacity());
96        System.out.println("capacity  : "+nc1.size());
97        nc1.add("o");
98        }
99 }
```