

```
1 public class VerticalMovingActor extends Actor implements Runnable {
2     protected Terminal<Boolean> up=new Terminal<Boolean>(false);
3     protected Terminal<Boolean> down=new Terminal<Boolean>(false);
4     protected int upSpeed=1;
5     protected int downSpeed=1;
6
7     public VerticalMovingActor(JSONObject src) {
8         super(src);
9         if (!src.isNull("upSpeed"))
10             upSpeed=src.getInt("upSpeed");
11         if (!src.isNull("downSpeed"))
12             downSpeed=src.getInt("downSpeed");
13     }
14
15
16     public Terminal getTerminal(String terminalName) {
17         if (terminalName.equals("up"))
18             return up;
19         else
20             if (terminalName.equals("down"))
21                 return down;
22             else
23                 return super.getTerminal(terminalName);
24     }
```

C:/nqCbtp/JavaApplication8/src/Terminal.java

```
25
26 void run() {
27     for (;;) {
28         if (up.read() && !down.read()) {
29             y=y-upSpeed;
30         } else
31             if (!up.read() && down.read()) {
32                 y=y+downSpeed;
33             }
34         try {
35             java.lang.Thread.sleep(samplingTime);
36         }
37         catch (Exception e) {
38             println(e);
39         }
40     }
41 }
42 }
```