

IterationDemo.java

```
1 package class4;
2
3 public class IterationDemo {
4
5     public static void main(String[] args) {
6         // While loop
7         int criteria = 5;
8         while (criteria < 10) {
9             System.out.println("In the loop, criteria is: " + criteria);
10            criteria += 1;
11        } // end while
12
13        // Switch
14        String trafficLight = "Yellow";
15        switch (trafficLight) {
16            case "Green": System.out.println("Go!"); break;
17            case "Yellow": System.out.println("Floor it, you got this!"); break;
18            case "Red": System.out.println("Stop!"); break;
19            default: System.out.println("The light is broken, follow 4-way stop rules.");
20        } // end switch
21
22        // Ternary operator
23        int threshold = 72;
24        int reading = 68;
25        String feels = (reading < threshold)? "cold" : "hot";
26        System.out.println("Today sure is " + feels + ".");
27
28        // Nested ternary operator
29        int coldThreshold = 45;
30        int hotThreshold = 85;
31        int today = 95;
32        String feelsLike = (today < coldThreshold)? "cold" :
33            ((today > hotThreshold)? "hot" : "warm");
34        System.out.println("Today sure is " + feelsLike + ".");
35
36        // Do loop
37        boolean moreItems = true;
38        int counter = 0;
39        do {
40            System.out.println("BEEP! Scanned 1 item, " + counter++ + " total items.");
41            if (counter > 10) {
42                moreItems = false;
43            } // end if
44        } while (moreItems == true);
45
46        // For loop
47        int maxTimes = 4;
48        for (int i = 0; i <= maxTimes; i++) {
49            System.out.println(i + " cycles of the loop.");
50        } // end for
51    } // end main
52} // end IterationDemo
```