```
Start
                  integer beerNum = 99
                  string word = "bottles"
                                                          false
true
                        beerNum > 0
                                                      false
                       beerNum == 1
                         true
                  word = "bottle"
                  println beerNum + " " +
                  word + " of beer on the wall,
                  " + beerNum + " " + word +
                  " of beer. Take one down
                  and pass it around, "
                                                  false
      true
                        beerNum > 0
  println beerNum + "
                                         println "No more
  " + word + " of beer
                                         bottles of beer on
  on the wall"
                                         the wall"
                             End
```

```
public class Main {
   public static void main (String[] args) {
     int beerNum = 99;
     String word = "bottles";
   while (beerNum > 0) {
      if (beerNum == 1) {
        //singular, as in ONE bottle.
        word = "bottle";
      System.out.print(beerNum + " " + word +
                          " of beer on the wall");
      System.out.print(beerNum + " " + word +
                          " of beer.");
      System.out.print("Take one down");
      System.out.print" and pass it around, ");
      beerNum = beerNum -1;
      if (beerNum > 0) {
         System.out.println(beerNum + " " + word +
                             " of beer on the wall");
        else {}^{\downarrow}
         System.out.println("No more bottles of " +
                             "beer on the wall");
     } // end else
   } // end while loop
 } // end main method
} // end class
```

## the do-while statement

```
do {
    statement(s);
} while(condition);
```

 The while statement is a pretest loop; that is, it tests the condition first and at the beginning of each pass through the loop

