

```
1 // Determines if a number is odd or even.
2 // There are many ways to do this but this method demonstrates a number of
3 // useful java constructs
4
5 public class OddOrEven
6 {
7     public static void main (String[]args)
8     {
9         // DECLARATION. Local variables should be given an initial value.
10        int mynum1 = 17;
11        int mynum2 = 36;
12        boolean even1 = false;
13        boolean even2 = false;
14
15        // PROCESSING
16        if (mynum1 % 2 == 0) // If the remainder is zero when divided by 2
17            even1 = true;
18
19        if (mynum2 % 2 == 0) // If the remainder is zero when divided by 2
20            even2 = true;
21
22        // OUTPUT
23        if (even1 == true)
24            System.out.println("The number " + mynum1 + " is even.");
25        else
26            System.out.println("The number " + mynum1 + " is odd.");
27
28        if (even2 == true)
29            System.out.println("The number " + mynum2 + " is even.");
30        else
31            System.out.println("The number " + mynum2 + " is odd.");
32
33    } // end main
34 } // end class
```