

## Tutorial 4

1. Write method headers for methods with the following descriptions:

- a. Computing the larger of two integers
- b. Computing the smallest of three values
- c. Checking whether an integer is even, returning true if it is and false if it is not
- d. Printing a calendar for a given month and year
- e. Generating a random integer between 1 and n.
- f. Generating a random double between 0 and n.

1. Look at the following piece of code, and discuss the *scope* of each variable.

```
1  public class TestCode
2  {
3      public static void main(String[] args)
4      {
5          int i = 25;
6          int b = g(i);
7          System.out.println("Result is" + (b + i));
8      }
9
10     public static int f(int i)
11     {
12         int n = 0;
13         while (n*n <= i) { n++; }
14         return n;
15     }
16
17     public static int g(int a)
18     {
19         int b = 0;
20         for (int n = 0; n < a; n++)
21         {
22             int i = f(n);
23             b = b + i;
24         }
25         return b;
26     }
27 }
```