

## Writing Methods

For exercises 1, 2 and 3, you only have to write the method header, NOT the actual method.

1. Write a method header for a method named `translate` that takes an integer parameter and returns a double.

```
public static double translate(int input)
```

2. Write a method header for a method named `find` that takes a `String` and a `double` as parameters and returns an integer.

```
public static int find(String str, double dbl)
```

3. Write a method header for a method named `printAnswer` that takes three doubles as parameters and does not return anything.

```
public static void printAnswer(double a, double b, double c)
```

For each of the following questions, **write a method** that performs the specified task, then **create the main method** (in the same class) to test your method.

4. **Welcome.java** Write a method for the following header.

```
public static String welcomeMessage (String name, int visitorNum)
```

The method should return a welcome message that includes the user's name and visitor number. For example, if the parameter were "Joe" and 5, the return string would be "Welcome Joe! You are visitor number 5."

5. **SoundAlarm.java** Write a method called `alarm` that prints the string "Alarm!" several times on separate lines. The method should accept an integer parameter that tells it how many times that string is printed. Print an error message if the parameter is less than 1.

**HINT:** This method will *\*print\** lines, it does not return a `String`. The return type should be `void`.

6. **CalculateSum.java** Write a method called `sumRange` that accepts two integer parameters that represent a range such as 50 to 75. Issue an error message and return zero if the second parameter is less than the first. Otherwise, the method should return the sum of the integers in that range (inclusive).

7. **CheckDivisibility.java** Write a method called `evenlyDivisible` that accepts two integer parameters and returns `true` if the first parameter can be evenly divided by the second, or vice versa, and `false` if it can't be. Return `false` if either parameter is zero.