# Scope of instance, local, and parameter variables

 **The goal for this exercise** is to understand how instance variables, local variables, and parameters differ in their scope – when they start to exist, how long they exist for, and when they cease to exist.

**What you need to do for this exercise:**

Within the provided starter project, there is already a class named Scope\_Of\_Variables.

1. You should create a new class, named NumberPrinter below it.
2. This class should have, as data members (instance variables), the lowest and highest numbers to print.
3. It should also have a method, named Print, which prints out all the (integer) numbers between lowest and highest. The method should have a single, **bool**, parameter, and if that parameter is true, then the method should print out only the even numbers. If the parameter is false, then you should print out all the numbers in the specified range.
4. Additionally, it should have a default constructor that sets both the lowest and highest to be 0.

The following code:

 NumberPrinter np = new NumberPrinter();

 np.SetLowest( 3.14159 );

 np.SetHighest( 12 );

 np.Print(true);

 np. SetHighest( 17.1 );

 np.Print(false);

should produce the following results:

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1. **After having done all of the above, put a short comment into the** Scope\_Of\_Variables **class, explaining the differences between instance variables, local variables, and parameters, in terms of when they're created, how long they exist for, and when they're destroyed. Feel free to research this via means beyond your textbook, if you need to.**In order to make your comment easy to find, please put it right underneath line that reads // Put your comment here:, in the Scope\_Of\_Variablesclass