Method Worksheet

This worksheet will help you design the methods that you will create from the existing code.

* The parameters are the input that you get from the main program.
* The local variables are the details that can be hidden inside the method. You want to hide as many details as possible, so anything that can be a local variable should be.
* The return type is the type (int, double, char, boolean, or String) of the data value that is returned from the method.

I’ve filled out the first one to help you get started.

1. The method randomly chooses a word from the dictionary file.

Lines of code in the original program: 33-50

Parameters: none

Local variables: Scanner dictionary; int wordsInDictionary; int randomCount; int i;

Return type: String

Method signature: public static String chooseRandomWordFromDictionary()

When you implement this method, you will have moved the file stuff from the main program into a method. Both this method and the main program will have to “throws FileNotFoundException” in their method header. This is explained in the project handout.

1. The method takes a word and scrambles the letters.

Lines of code in the original program: 52-66

Parameters:

Local variables:

Return type:

Method signature:

1. The method lets the user guess the word three times and determine if the user won or lost.

Lines of code in the original program: 68-81

Parameters:

Local variables:

Return type:

Method signature: