Assignment 3

Due: 10/2/15 at 11:59PM

Recall that we previously discussed variables, variable types, variable naming, naming conventions, and last but not least—how to comment your code and why it is important.

I’ll keep this assignment short and simple because I have midterms this week and also because this topic isn’t very difficult in general. So this homework shouldn’t take you very long.

Submit your homework in word/text file of your choosing. Make sure you follow the instructions from my previous email to upload them onto Github.

# Part 1 – Definitions

**Define** the following variable types and **give an example** of how one would use them in a java program (you can use google to help you, but make sure you define in them in your own words—believe, me ill know the difference).

**Boolean – a numerical value that can be true or false**

**Int – an integer value**

**Long – an array**

**Char- a character**

**String – used for displaying words**

**Double – numerical value that shouldn’t be used for precise values**

# Part 2 – Differentiating Variable Types

Recall that there are three variable types:

* Static
* Local
* Parameter

There are a bunch of variables defined in the Java code below. Make a list of all of them and tell me what type they are.

public class Assignment3Code {

public static void main () { //main method int var1; int numExpress;

}

class encode {

static int numChars; char symbol; double runtime;

}

public static void encryptCode (char symbol, String decrypter) {

int var2;

static long digitDecoder;

}

# Part 3 – Commentary Usage

For this part, I just want you to write a paragraph or list explaining to two methods of commenting, and how each is useful for a particular task.

Commenting allows the programmer to add additional information within the program so that the reader can understand what is going on without having to change the program. Comments come in various forms, from // on the side of a line to comment on line, to a /\* <insert paragraph> \*/ that comments out an entire paragraph. The first type of commenting is useful for getting to know what an individual code does, and how it performs its task. The second form of commenting allows the reader to understand how the code as a whole works, because the programmer can write as much as they need to explain what is going on and can comment it out, which doesn’t affect the coding at all.