**Java Week 1 Questions**

The answers to the following questions can be found in your book, but you may want/need to use other means to find some answers (for example, the internet).

1. Why is main memory (RAM) referred to as 'volatile'?

It deletes after power is shut off

1. What is the extension of an executable file?

.exe

1. When an executable file is launched, what happens to the contents of the file?

I’m not sure

1. What is a bit?

1 or 0

1. What is a byte?

A stack of 8 bits

1. What is a file?

A way of storing information on a computer

1. T/F - Every bit in memory has an address that is used to locate that bit.

T

1. What is the purpose of the this program: **javac.exe** ?

Compiler for .java programs

1. What is the purpose of this program: **java.exe** ?

Run java programs after it’s compiled to machine code, or .class

1. What is the difference between a file that has a **.java** extension and a file that has a **.class** extension (for example: HelloWorld.java vs HelloWorld.class)?

.java is human code, .class is machine

1. What is a **class** in Java, and what is the purpose of a class?

A class is a blueprint for how objects are created

1. In regards to objects, what do each of the following terms mean?
   1. Attributes characteristics in regards to other objects
   2. Behaviors how the object preforms
   3. State unsure

**The following questions are based on class activities:**

1. Where are the javac.exe and java.exe programs located (what is the path to those executable files)?

C:\Program Files (x86)\Java\jre1.8.0\_231\bin – for my personal computer

1. What is the purpose of the PATH envirtonment variable?

To allow it to be called in the terminal or cmd

1. What command do you use in the terminal to change to a different directory (both Windows and Linux use the same command)?

cd

1. What command do you use in the terminal to list the contents of a directory?
   1. Windows: dir
   2. Linux: ls I think