Chapter 1 Self Test

**What is bytecode and why is it important to Java’s use for Internet programming?**

Bytecode is an intermediary between Java code and machine code. It gives Java portability, meaning it can run on many different CPU’s. This is important for the internet because there are many operating systems using the same internet. bytecode also gives Java security, by restricting what the JVM can do to the computer it runs on.

**What are the three main principles of OOP?**

Encapsulation

Polymorphism

Inheritance

**Where do Java programs begin execution?**

the main method

**What is a variable?**

A variable is a stored memory location that can be accessed by a name. Contents of variables can be changed during the course of the program.

**Which of the following variable names is invalid?**

1. count
2. $count
3. count27
4. **67 count**

**How do you create a single line comment? How do you create a multiline comment.**

\*/

This is multiline

/\*

// This is singleline

**Show the general form of the if statement, show the general form of the for loop.**

if(condition)statement

for(initialization; condition; iteration)statement

**How do you create a block of code?**

{}

The moon’s gravity is about 17 percent that of earth’s. Write a program that computes your effective weight on the moon.

**If you make a typing mistake when entering your program, what sort of error will result?**

Syntax Error

**Does it matter where on a line you put a statement?**

No