**Sample questions for Quiz 01**

1. What is the process called that translates a program written in Java into machine code?
2. What is the name for the technology that allows your laptop to communicate with the EV3 brick wirelessly?
3. Java uses several different types of brackets. For what purpose are “curly brackets { } “ used?
4. What is the name for components you add to a program for those things a robot “has”?
5. What is the name for components you add to a program for those things a robot “does”?
6. Consider the following program:

**public class MoveAndShake**

{

 **public static EV3LargeRegulatedMotor motor =**

 **new EV3LargeRegulatedMotor(MotorPort.C);**

 **public static void drive(int distance)**

 {

 // code deleted

 }

 **public static void shake()**

 {

 // code deleted

 }

 **public static void turn(int angle, int speed)**

 {

 // code deleted

 }

 **public static void main(String[] args)**

 {

 // code deleted

 }

}

1. What is the name of this program?
2. How many fields does the program have?
3. How many methods does the program have (including the main method)
4. To which output port is the motor of this robot connected?
5. How many input values do you need to provide when you call the method called drive?
6. How many input values do you need to provide when you call the method called turn? How about for shake?
7. One of the named components of the EV3 Kit lets you create sounds. Do you use SOUND, Sound, or *either one* to refer to that component? Explain.
8. Use one of the Sound methods to play a single note at 440 Hz for exactly 2 seconds.
9. Assume a program includes two methods as described below:

*// method to make the robot drive forward by ‘distance’ cm*

**public static void drive(int distance)**

{ // code deleted }

*// method to rotate the robot clockwise by ‘angle’ degrees*

**public static void turn(int angle)**

{ // code deleted }

Create a main method that would cause the robot to drive in a rectangular pattern with width 30 cm and height 70 cm.