

**Q1: In your own words, describe what each of the three statements below does, and provide detailed examples of how and when you would use each statement.**

- **break;**

breaks out of a loop, or by use of a label, out of a nested loop. I would use this statement when I want to stop a while or for loop from continue, either because the desired result is reached or because an error was detected.

Here is a pseudo example:

```
While(true)
    do first thing;
    do next thing;
    if (error) break;
```

- **return;**

returns a value from a method. I would use this when the method has completed its task and I want it to send the value to the method call.

Here is a pseudo example:

```
private static void theAnswer(){
    return 42;
}
```

- **System.exit(0);**

This is the termination code for the Java Virtual Machine. (Source: <http://docs.oracle.com/javase/1.5.0/docs/api/java/lang/System.html>). The argument of the expression is a code. 0, by convention is normal exit. Other numbers could be used for abnormal exit. I would use this to exit the program, to shut it down completely.

Pseudo example:

```
Class{  
  //lots of stuff happens, then we are done  
  if(noError) System.exit(0);  
  else System.exit(1);  
}
```