

**Operating Systems**  
**Spring 2015 – Quiz 2**

1. When a program executes a system call, what **mode** does the system have to switch to?

Kernel mode

2. What is the purpose of a system call?

A system call is a request to the OS to take some action on behalf of the calling program.

3. Suppose you execute the command:

**`./myscript.sh`**

- What does the `'.'` character mean?

It means look for this script in the current directory.

4. Suppose the first line of the file `myscript.sh` is:

**`#!/bin/bash`**

- What is the purpose of this line in the script file?

It is a comment but it also tells the name and location of the shell that is meant to run this script (in this case use bash, and the bash program is in /bin)

- In general, what does the `'#'` character mean in shell scripts?

It is the comment character – everything after it on a line is ignored (treated as a comment, not interpreted)

5. What will happen if you execute the following command?

**`cd ../..`**

The current working directory will be changed to the parent of the parent of the current working directory – the current working directory will move 2 directories up.