PSLG Session 1 - Group Assignments

Linux Basics

- Assignment One - Write the BASH code to do the following:

- Create a new folder in the home directory called 'PSLG1'

- Change directory to this new folder

- Create a new file named 'helloWorld.c'

- Open the file in emacs (while leaving the console open)

- Write a simple C program to print 'Hello World' to the console

- Compile this file in the terminal and run it

- **Assignment One - Solution**

- (First of all, check to see if you're in the home directory) pwd

- (If not, change to the home directory) cd ~

- mkdir PSLG1

- cd PSLG1

- touch helloWorld.c

- emacs helloWorld.c &

```c
// helloWorld.c
// Print 'Hello World to the console
// Author - Ian Burke
// Date: 24th September 2017

// Begin program
#include <stdlib.h>
#include <stdio.h>

int main( ){
        printf("Hello World\n");
        return EXIT_SUCCESS;
}
// End Program
```

- gcc -Wall - ggdb -o helloWorld helloWorld.c

- ./helloWorld

- **NOTE:** You might be wondering what the arguments to the gcc command mean:

- **-Wall**: enables some warnings which would otherwise be ignored

- **-ggdb**: produces debugging information

- **-o *<fileName>*** : Places the output of compilation in the file *<fileName>* (whatever you call it)

- Finally, pass the compiler the program you actually want to compile