Welcome/Introduction (Student intros, course overview, check computer sign-ons)

Basic Computer/Unix Concepts

- Review parts of a computer: Hardware/Software
- Purpose of an Operating System
- Logging in/UCD System/Linux (Ubuntu)
- How to navigate Directories (Folders), Files
- How to start/close a terminal window
- Basic Linux Commands: Interactive session (ls, cd, pwd, mkdir, cat, more, mv, cp, rm, rmdir)
- How to use a text editor: gedit

Introduction to programming and C language

- What is a programming language?
- History/Strengths of "C" language
- First C program: [helloworld.c]
- Compiling a C program
- Basic terminal entry and operations: printf, scanf [add.c]
- Variables, operations, expressions [variables.c]
- If-else statements [odd-even.c]
- For and while loops [countC.c] [distance.c]
- Computer Concepts: How numbers are stored/data types (discussion)
Solving math problems - "C" exercises

- Math concept: factorial [factorial.c]
- Solve quadratic equation [quadratic.c]

At this point, we switch to Python language