Programming 03 01c - C

The C Programming Language

- C is a low-level programming language (compared to Java at least)
- Originally developed in the 1970s by Dennis Ritchie
- It is not object-oriented
- It will let you do almost anything, so it won't stop you doing dangerous things
- Memory usage must be controlled by the coder

C Reference Material

- C Language Reference
 - https://www.gnu.org/software/gnu-c-manual/gnu-c-manual.html
- The C Standard Library
 - https://www.tutorialspoint.com/c_standard_library/index.htm
- The standard in textbooks
 - The C Programming Language Kernigan & Ritchie
- Linux Manual pages
 - use the man command from the command line

Hello World

```
#include <stdio.h>
int main(void)
    puts("Hello World");
    return (0);
```



gcc The GNU C Compiler

- gcc –Wall main.c –o main
 - Will compile main.c to an executable named main
 - -- Wall shows warnings as well as errors
- To compile multiple files
- gcc -Wall main.c hello.c -o main

Linux Terminal Commands

- · Get the manual files on any command with
 - man <command>
- cd change directory
- mkdir make directory
- Is list directory