

Scribe Notes: Jan 13th: C Programming

Overview:

Environment: RedHat Linux 5/6

Editor: vi / emacs

Compiler: gcc

Debugger: gdb

**** C is not an Object Oriented Language**

Use Terminal to write the program and run the compiler:

Example:

\$echo shell

\$which gcc

\$gcc – version

C – Programming syntax:

<preprocessor directives>

(→ #include, #define, etc)

<global declarations>

(→ declare the functions which are used later. (Same as method declaration in C++))

<global variables>

(→ Variables available throughout the program (Global scope))

<functions>

(→ Function: <function header>
<function declarations>
<statements>)

example:

//Writing code for Hello World

#include<stdio.h>

// Preprocessor directive

/* The statement copies all the contents of 'stdio.h' and adds it to the start of the program*/

int main(){

// main() is where the program starts

printf("Hello World");

return 0;

}

Running this program in the terminal:

\$ gcc -o hello hello.c	(this command says that the file hello.c can now be called by the command 'hello')
\$./hello	(this runs the command 'hello')
Hello World	(This is the output printed by the program)
