Grupo: CCOMP6-1	
echa:	_
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Apellidos y Nombre del alumno	

- 1) Familiarizarse con Visual Studio Code y Ubuntu En casa usaran 1) ubuntu doble partición o 2) ubuntu WSL
- 2) Familiarizarse con los mecanismos de compilación en la línea de comando

```
/* header files go up here */
/* note that C comments are enclosed within a slash and a star, and
may wrap over lines */
// if you use gcc, two slashes will work too (and may be preferred)
#include <stdio.h>
/* main returns an integer */
int main(int argc, char *argv[]) {
/* printf is our output function;
by default, writes to standard out */
/* printf returns an integer, but we ignore that */
printf("hello, world\n");
/* return 0 to indicate all went well */
return(0);
}
```

## **Compilation and Execution**

```
prompt> gcc hw.c
prompt> ./a.out
prompt> gcc -o hw.exe hw.c
prompt> ./hw.exe
```

## **Useful Flags**

```
prompt> gcc -o hw hw.c # -o: to specify the executable name prompt> gcc -Wall hw.c # -Wall: gives much better warnings prompt> gcc -g hw.c # -g: to enable debugging with gdb prompt> gcc -O hw.c # -O: to turn on optimization
```

## **Linking with Libraries**

Note that fork() is a system call, and not just a library routine. However, the C library provides C wrappers for all the system calls, each of which simply trap into the operating system.

#Include <matn.n></matn.n>
tan()
// Link with -lm.
prompt> gcc -o hw.exe hw.c -Wall –Im
The -IXXX flag tells the linker to look for libXXX.so or libXXX.a probably in that order.

if you want the compiler to search for headers in a different path than the usual places, or want it to link with libraries that you

specify, you can use the compiler flag -I/foo/bar to look for headers in the directory /foo/bar, and the -L/foo/bar flag to look for libraries in the /foo/bar directory.

-L/foo/bar;/foo/bar333;/foo/barv55

The -c flag tells the compiler just to produce an object file — in this case, files called hw.o and helper.o. These files are not executables, but just machine-level representations of the code within each source file. To combine the object files into an executable, you have to "link" them together; this is accomplished with the third line gcc -o hw hw.o helper.o).

3) Tarea, Investigar e implementar el uso de Makefile

Revisar:

Laboratory: Tutorial F.6 Makefiles



Los trabajos se entregarán usando incluyendo un makefile