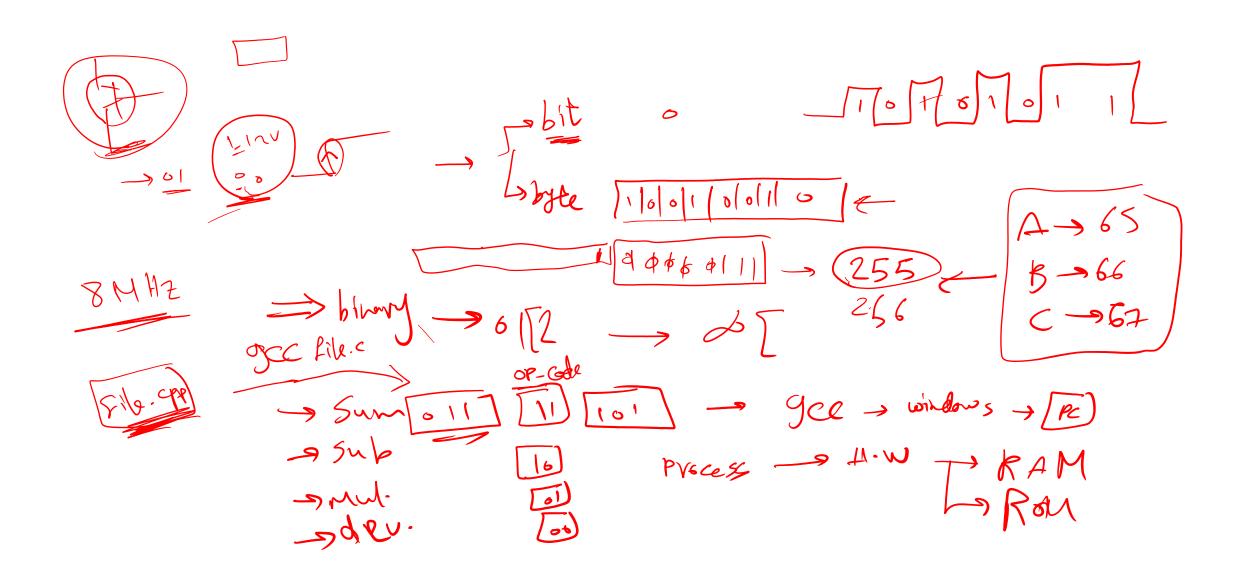
Session 2

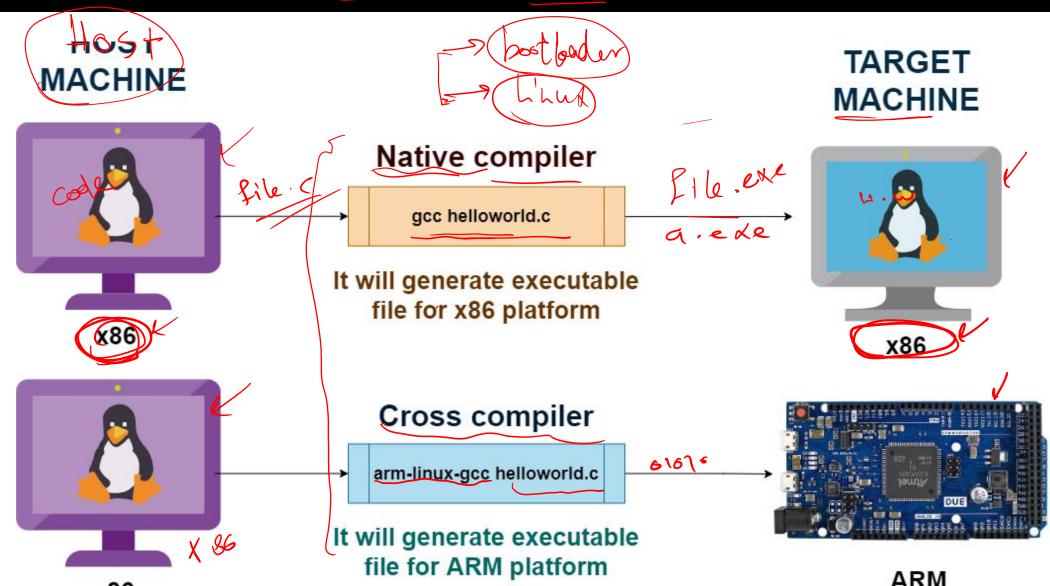
Mostafa Akram



Compiler

```
0110011000100010011000111
                                                                                          11000000011111111110000001
#include<stdio.h>
                                                                                          1111000110101010001100011
                                                                                          0011000100010011000111110
int main()
                                                                                          00000011111111110000001111
                                                  Compiler
                                                                                          1000110101010001100011001
                                                                                          1000100010011000111110000
   printf("Hello, World!\n");
                                                                                          0001111111110000001111100
   return 0;
                                                                                          0110101010001100011001100
                                                                                          0100010011000111110000000
                                                                                          11111111100000011111100011
      hello_world.c
                                                                                             hello_world.o
```

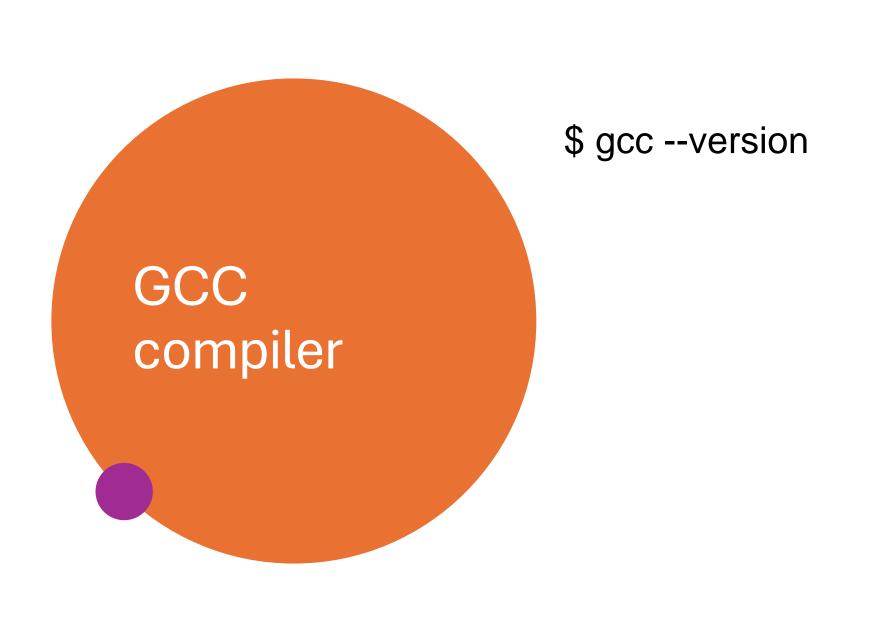
Native VS. Cross compliers





Open a Terminal, and enter "gcc - version". If gcc is not installed, the system will prompt you to install gcc.

malhine language > Native compiler





For Windows, you could either install Cygwin GCC, MinGW GCC or MinGW-W64 GCC. Read "How to install Cygwin and MinGW".

Cygwin GCC: Cygwin is a Unix-like environment and command-line interface for Microsoft Windows. Cygwin is huge and includes most of the Unix tools and utilities. It also included the commonly-used Bash shell.

MinGW: MinGW (Minimalist GNU for Windows) is a port of the GNU Compiler Collection (GCC) and GNU Binutils for use in Windows. It also included MSYS (Minimal System), which is basically a Bourne shell (bash).

MinGW-W64: a fork of MinGW that supports both 32-bit and 64-bit windows.

Getting Started GCC

Compile/Link a Simple C Program

• gcc file.c

```
void main () }
```

```
Sint somerin 5
```

```
// hello.c
#include <stdio.h>

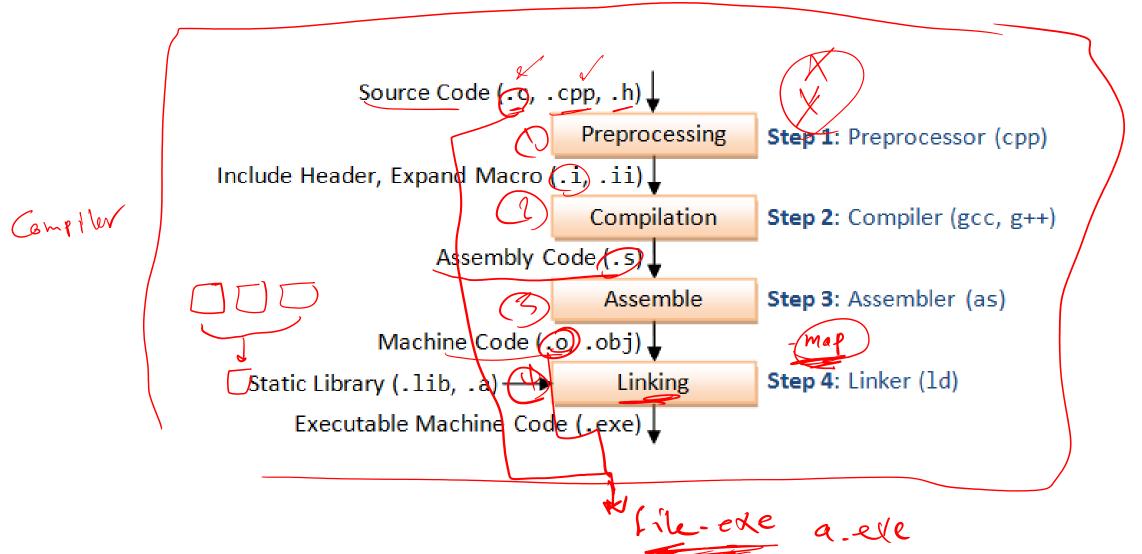
int main() {

printf("Hello, world!\n"); > return

return 0;
}
```

Compiling process





Most used keywords gcc

- Gcc --version ✓
- Gcc file.c > 2.eke
- gcc -c file.c -
- gcc -o file.exe file.o ->
- •
- gcc -S file.i

Let us print "Hello World"



⇒ortane	
	Dint, void
	O Compiler types
	3 Compiling process (intro)
	4) Osing GCC Keywords
	(5) How to use terminal frap button"
	(4) Osing GCC Keywords (5) How to use terminal for top button!! (6) Using terminal & CMD (5) Ctrl + Shift + To
	Jecol July C. Lav
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= Task > Print > Hello world D 9

Lo your name D)

Lo search How to print numbers Using Print f and 968.

Links

- https://forms.gle/zeLZELpMcqBmvmmt7
- https://www.youtube.com/watch?v=sXW2VLrQ3Bs MINGW64 tutorial
- https://notepad-plus-plus.org/downloads/