



Preprocessing:

- Read Library directives
- Remove Comments

Directives are LINES that in C/C++ program that begins with a '#' symbol.

```
#include    <stdio.h>
(command)  (arguments)
```

- <stdio.h> is to be found in the library-include in the user directories
- "stdio.h" is to be found in the user-defined directories, defaulted path is the same directory as the C/C++ file

Preprocessing Command Lines:

```
g++ -E a.cpp
```

Output: Printout of lines of loaded directive.

Assembly command Line:

```
g++ -S a.cpp
```

Output: .s file

Object file command Line:

```
g++ -c a.cpp
```

Output: .o file

Full compilation command Line:

```
g++ a.cpp
```

Output: .exe file

Reading Link: <https://www.calleerlandsson.com/the-four-stages-of-compiling-a-c-program/>

- "String Literally" is whatever in between the "" with an escaped character /0
- A statement is a line end with ;

Identifies

- Name
- Variables and Functions have names
- Cannot starts with digits, e.g. 2_abcd, 2abcd, 234abcd
- A-Z, a-z, digits 0-9, _ (Underscore)