1. How to add a comment for a function?

Soln;

// This is the single line comment for below function

/\* this is the multiline

comment for below

Function

\*/

int sum(int a, int b){

return a+b;

}

1. What should we pay attention to when declaring a variable?

Soln:

1. data type
2. Valid name and meaningful name
3. Initialization
4. Memory considaration
5. Variable scope ( local & global)
6. Can a C program exist without the main function? How is this possible? Why?

Soln: Technically, a C program requires the main() function as the entry point. However, there are some tricks to bypass main(), but these are not standard and rely on compiler-specific behavior.

Using preprocessor macro trics:

Code:

#define my\_main main

#include <stdio.h>

int my\_main() {

printf("Hello World!\n");

return 0;

}

1. How does a C source code become an executable file, Fill in the table below

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tool Name | Preprocessor | Compiler | Assembler | Linker |
| Gcc Tool | MninGW | MninGW | MninGW | MninGW |
| Gcc option | -E | -S | -c | default |
| Function | Include header,  Expand macros,  Remove comments | Convert preprocessed code to assembly code | Convert assembly code to machine code | Link object file to libraries and other start up code. |
| Input | .c(C file) | .i(preprocessed file) | .s(assembly file) | .o(object file) |
| Output | .i(preproessed file) | .s(assembly file) | .o(object file) | .exe (executable file) |