

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;
}
```

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

Soln:

1. data type
2. Valid name and meaningful name
3. Initialization
4. Memory consideration
5. Variable scope (local & global)

3. 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 tricks:

Code:

```

#define my_main main
#include <stdio.h>

int my_main() {
    printf("Hello World!\n");
    return 0;
}

```

4. 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)