**What are C header files used for?**

Header files generally contain function declarations which we can then use in our main C program. A general example is the <stdio.h> header file, which allows the main program to use such functions as **printf()** among others.

Header files are useful for Object Oriented Programming, or OOP for short.

It is not recommended to put function definitions in a header file. Ideally there should only be function declarations.

**What is the difference between a function definition and a function declaration?**

* A function declaration tells the compiler about a function’s name, return type and parameters.
* A function definition tells provides the actual body of the function. Ergo, no actual functionality should be included in header files function declarations…

Example of function declaration:

return\_type function\_name( parameter list );

int max(int num1, int num2);

So for this tasks header file, we want to **declare** possible functions used to interface with the L9733 driver as well as datastructures?

* *The header should contain function prototypes and whatever other items you consider necessary to interact with the chip…*
* *Add comments to your code to guide the application writer on how to use your data structures and functions.*

The way I understand this, I am to create an interface, which allows a user/microcontroller to control the given chip L9733. The driver in this scenario would be the <main>.c file, which utilizes the <header>.h file to together act as an interface between **USER/CONTROLLER** and **CHIP.**

The Interface here is a larger abstract concept, wich allows control of a certain aspect, eg. a chip L9733. The Interface should contain ”methods” (=functions) that allow for the control of this aspect (chip) in a certain way. How this chip may be controlled is purely up to my design, ergo I can creatively declare functions and datastructures which let me execute different methods of control.

**Macrop declaration:** #define BLABLA(par1, par2) par1 + par2

**What is a header file for?**

1. A header file is for declaring functions and macros, specifically those that should be shared between source files.