

Exercises

2 – Getting Started with C Programming

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Exercise 1

- Open a text editor (e.g., `gedit`)
- Create a file `hello.c`
- Write in `hello.c` your `Hello World!`
- Open a `shell` and move to the directory where you saved `hello.c`
- Compile `hello.c` using `GCC` and run it

Exercise 2

- Create a **copy of `hello.c`**
- Modify the copy as followse:
 - Declare an integer variable `age`
 - Assign to `age` your age
 - Print to the standard output the content of `age`
- Compile and execute

- Define, using **pre-processor directives**, a constant **MATRICOLA** that contains your matricola
- Print to the standard output
 "Hello World, I am X years old and my matricola is Y"
where X is the content of **age** from previous exercise and Y is the **value of MATRICOLA**

Exercise 4

- Modify program of **Exercise 3** so that the text "Hello World, I am X years old and my matricola is Y" is defined in a **parametric directive** of the pre-processor HELLO(X,Y)
- Print to the standard output the text using **the directive HELLO(X,Y)**
- Compile and run
- Use **GCC** to show the **output of the pre-processor** (without compiling and linking): what happened to your C source?