## Practice: first C program! (15 min)

Let's set emacs up, write and run a first "literate" c program! it is very important that you enter everything **exactly as shown**. if you get something wrong just go back one step. Contact me if you need help.

- 1 Open the command line terminal with cmd in the search field and pin the app to the task bar to open it more quickly next time.
- 2 At the prompt, type gcc --version this should tell you the location of the C compiler, GNU CC.
- Open the Windows search field and type notepad, then open the app. You can also pin it to the taskbar. This is your editor now.
- 4 Pin the terminal to your taskbar to open it quickly next time!
- In the notepad app window, enter the following lines don't miss a single character, including empty 'whitespace':

```
6 #include <stdio.h>
7
8 int main (void)
9 {
10 puts("Hello, world!");
11 return 0;
12 }
```

- 13 Save the file with CTRL + s to the name: hello.c. Pay attention to the file location on your computer, e.g. This PC > Downloads.
- 14 Close the notepad app.
- 15 Open the CMD line terminal again.
- 16 Go to the location of your hello.c file by entering cd followed by the location, e.g. cd Downloads or cd C:\.
- 17 Make sure your file is there and ready by entering type hello.c. You should now see it on the
- 18 Compile the program by entering gcc hello.c. If all is well, you'll get no response, just another prompt.
- 19 At the prompt, enter DIR hello.c a.exe this will give you information about your C file and the executable machine file.
- 20 Run the program by entering a . exe.
- 21 Now compile the program again with the command qcc hello.c -o hello.
- 22 Your executable (the compiler's output) is now called hello.
- 23 Check that by entering hello at the prompt. You should get your output Hello, world! on the screen.
- 24 Now open hello.c again using notepad and at the top add the line:

```
25 // Hello world program by [yourname] (Pledged)
```

- 26 Save it again and submit it as your first in-class assignment:
  - 27 Open a browser to GDrive and upload the file
  - 28 Open the assignment in Canvas at lyon.instructure.com
  - 29 Upload the file from GDrive (click on "More")
  - 30 When you see it attached, click on Submit Assignment.