Lab 1
Helpful Tips
Welcome to Lab 1!

- Long lab – will need to finish it outside your lab session
- Do not skip ahead to the tasks!
  - **Read everything!**

For all labs – all tasks:
- Always start your lab from **your local repo directory:**
  
  `sfuhome/cmpt-127/cmpt127-1201-your_username`
A Few Helpful Tips
Software development process

Read the requirements
Think (design) our solution (program)
Write code (our program)
Compile our program
Test our program

Reading **ALL** the requirements of a particular task before starting to code! Follow each requirement carefully!

**Our goal ->**

**Compile once, execute once! Why?**

```
gcc t1.c -> executable called a.out by default
```

**Compile once, execute many times!**

```
gcc -o hello -Wall t1.c
  -> executable called hello
```
A Few Helpful Tips for some Lab 1 Tasks

➤ **In general, tasks of Lab 1** build on each other
  ➤ When doing a task, ask yourself: what code construct can I recycle from the previous task?

➤ **Be aware: Task 5 and Task 7** - Input and output interleaved on the monitor screen

➤ **Task 6** – There is a trick that allows us to properly initialize variables $\text{max}$ and $\text{min}$

➤ **Read Task 9’s Guide carefully**
C Functions

For all labs – all tasks:
- Get in the habit of looking up C functions (introduced in labs) on the Internet –> look for:
  - Purpose of the function
  - Parameters (numbers, data types and order) of the function
  - Returned value of the function
- For example, what does it mean when `scanf(...)` returns a number that is …
  > 0?  ->  ???
  0?  ->  ???
  < 0?  ->  ???

for you to answer
Reminder about your Git Lab repo project web page

- Make sure you never edit/delete files directly from your Git Lab repo project web page
- Always do your editing using the files in your local repo, then `git add/commit/push` your changes (changed files) to your Git repo
- If you edit/delete files directly from your Git repo project web page, your Git repo will have a newer timestamp than your local repo and you will not be able to commit to your Git repo anymore