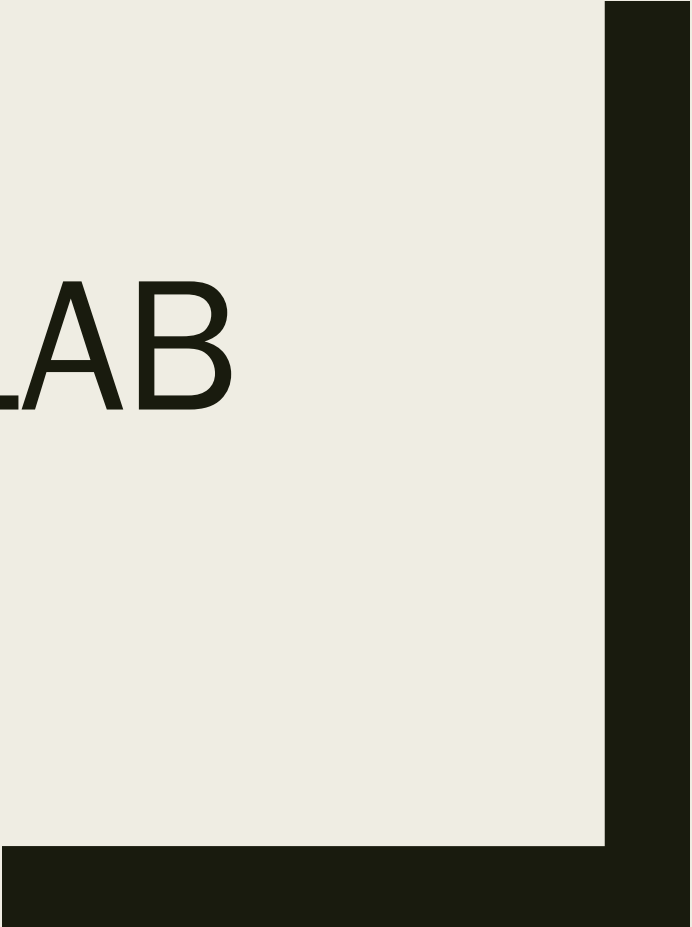




CPSC 231 – LAB

Sepehr Sabour

Fall 2019



Who am I ?

- My name is Sepehr Sabour
- I am a computer science master student
- My email address is sepehr.sabour@ucalgary.ca
- You can find me here -> ICT720

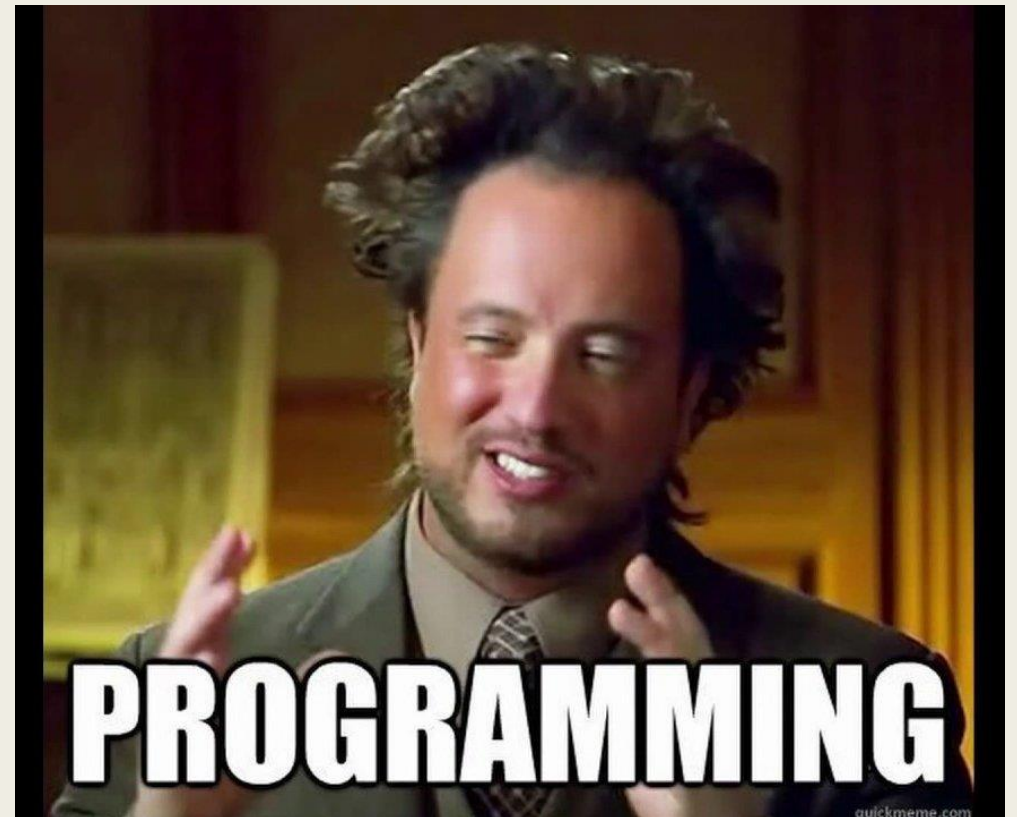
What are we going to learn?

- How to be a computer scientist.
- How to be a programmer
- How to be a Good programmer

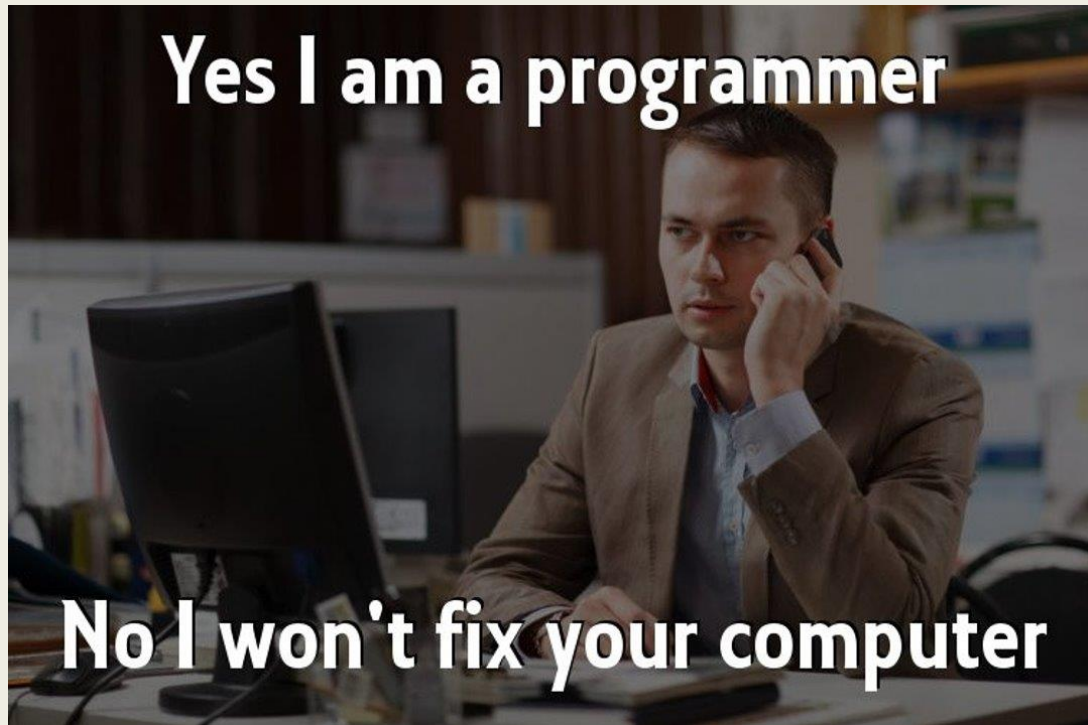
- If you know programming

What is programming?

- *Programming is a way to “instruct the computer to perform various tasks”.*



Who is the programmer?



Programmer

n. [proh-gram-er]
an organism that turns
caffeine and pizza
into software

Computer Lab

- You need CPSC account.
- PLEASE DO NOT TURN OFF THE COMPUTERS
- Linux Machines

Today's Tasks!

- D2L <https://d2l.ucalgary.ca/>
- Work with Linux
- Installing python
- Remote Access
- First Code ^_^

Work with Linux

You need to learn how to work with Terminal.

You can use Terminal to send commands to Linux operation system.

Like what?

- Managing you files
- Write codes
- Run codes
- Install softwares
- ...

Search "terminal" or press Ctrl + Alt + t

Some use full commands

ssh your_username@linux.cpsc.ucalgary.ca

Purpose	Command	Example
Move into a directory	cd	cd Desktop (suppose we are in home directory)
Move back from a directory	cd ..	cd .. (If in Desktop, goes back to home)
Jump to the home directory	cd ~	
List the contents of a directory	ls	
Create a new directory	mkdir [directory name]	mkdir MyFolder
Remove a directory	rmdir [directory name]	rmdir MyFolder
Create a new file	touch [file name]	touch MyFile.py
Remove a file	rm [file name]	rm MyFile.py
Copying a file	cp [file name] [destination]	cp MyFile.py Desktop
Editing a file with nano	nano [file name]	nano MyFile.py
Executing a python code (v2)	python [file name]	python MyFile.py
Executing a python code (v3)	python3 [file name]	python3 MyFile.py

■ [Pesehr.github.io](https://pesehr.github.io)

Installing python

- Mac: `brew install python`
- Linux: `sudo apt-get install python3.6`
- Windows: <https://www.python.org/downloads/windows/>

Remote Access

SSH command helps you to connect to another computer remotely. You have a remote access to cpsc servers. You can run your codes on these servers.

How to connect with linux/mac?

- Open a terminal
- Type : `ssh your_username@linux.cpsc.ucalgary.ca`
- Enter your password (if required)

What about windows? Use putty

First Code ^_^

- Now use all the things you have learned
- Connect to a remote server
- Create a file with name : HelloWorld.py
- Open the file using **nano**
- Add following code:
 - `print('Hello World')`
- Run your code
 - `python3 HelloWorld.py`



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