Student Name (print):

This assignment contains 3 pages and is due at 11:59 pm on Sunday.

Question:	1	2	3	4	Total
Points:	5	5	10	20	40
Score:					

Instructions: This homework assignment is divided into two sections:

- The first part requires you to submit a file that contains two screenshots (#1-2) and a reading assignment on basic Python code (#3).
- The second part, problem 4, is a programming assignment. For this, you will work out the entire code, save your changes, and submit the *ipynb* file.
- You will need to submit one single file for problems 1-3 and your modified code for problem 4.

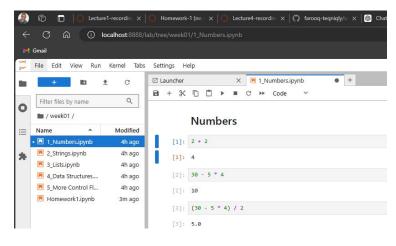
1. (5 points) **Install Python 3** Submit a screenshot when finished (showing that you have Python installed).

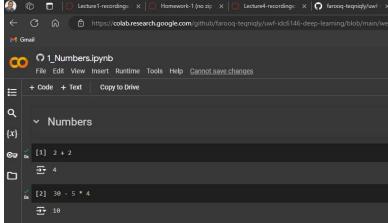
```
faroc@FOOQLT1401 C:\src\my\uwf-idc6146-dee

> python --version
Python 3.12.5
faroc@FOOQLT1401 C:\src\my\uwf-idc6146-dee

> )
```

2. (5 points) Install Jupyter Notebook and get access to Google Colab Submit a screenshot when finished (showing that you have Jupyter Notebook installed and have access to Google Colab). Note: the free version of Google Colab is sufficient for now.





3. (10 points) Understanding basic Python code and algorithms. For each of the following fragments of code, write what the output would be. Do this without running the code; there are some typos (although feel free to check yourself when you're done).

```
num = 10
while num > 3:
print (num)

num = num -1

Assuming lines 3 and 4 are properly indented, they are part of the while loop and will print out:
10

9

8

7

6

5

4
```

If line 4 is indented at the same level as line 1 then an infinite loop results.

```
\begin{array}{ll} \mbox{divisor} &= 2 \\ \mbox{for i in } \mbox{range} \left( 0 \,, \, 10 \,, \, \, 2 \right) \colon & \mbox{Assuming the print statement is properly indented and part of the} \\ \mbox{print} \left( \mbox{i } / \mbox{divisor} \right) & \mbox{0.0} \\ \mbox{1.0} \\ \mbox{2.0} & \mbox{2.0} \end{array}
```

3.0 4.0

There is a decimal because division returns a float.

```
num = 10
while True:
if num < 7:
break
print (num)

num -= 1

Assuming the indentation is correct and the intent of the program is to print numbers greater than 6, the output would be:

9
8
7
```

```
count = 0
for letter in 'Snow!':
print('Letter #', count, 'is', letter)
count += 1
```

Assuming lines 3 and 4 are indented under the for loop, the output would be:

```
Letter # 0 is S
Letter # 1 is n
Letter # 2 is o
Letter # 3 is w
Letter # 4 is!
```

- 4. (20 points) Complete the coding tasks in the file titled *Homework1.ipynb* Instructions:
 - The code with all other example codes is available in Google Drive: https://drive.google.com/drive/folders/1P_ErP4X5AGWGXQ5xEZK4u956AD3DYMIS?usp=sharing
 - Once you've finished, save your work and rename the file by appending your initials. For instance, if your name is Shusen Pu, you should rename the file as "Homework1-SP.ipynb".
 - Make sure all your inputs in the code are saved. Then close Jupyter Notebook (or Google Colab) and reopen the renamed file (in my case, "Homework1-SP.ipynb") to confirm that all your answers have been saved properly.
 - Upload your modified code on Canvas under this assignment.

I will subsequently review and run your code in order to grade your assignment.