

**CS 101**  
**ASSIGNMENT 1: INTRODUCTION TO PYTHON**

- Make sure to have created a folder in your home directory on your computer with the name *School\_Nova* in which you will store all the files for this class. I recommend creating sub-directories for each Week/Homework as it will get cluttered quickly.
- Create a new Python script file: *CS101\_Homework1.py*. Save this file in the folder you created on your computer. Make sure it has extension `.py` at the end of the name after it has been saved!
- When finished with the problem set, upload the file to Google Classroom using the Homework 1 assignment link. Don't forget to add comments at the beginning of each task with the problem number and throughout your code to add clarity. This will help immensely in more complicated future assignments.
- As a reminder, to display something to the console, use the statement: `print("sometext")`. To display a variable you can use `print(variable_name)` as in the following example:  

```
num = 3.0  
print(num)
```
- You can also display a message and print a variable using the same print statement:  

```
num = 3.0  
print("The result is", num)
```
- If a problem has a star on it, it is more challenging and will be optional to complete.

**TASKS**

1. If you did not finish installing Python, please do so now. Make sure you can open the Idle editor and open a new file and save it with the proper name.
2. At the top of your script add a comment with your name. (A single-line comment starts with the hashtag symbol `#`)
3. Write code to display this message to the console: Hello world!
4. Create a variable  $x$  and assign it the value 50. Create a variable  $y$  and assign it the value 2.5. Create a new variable  $z$  and assign it the expression of  $x$  (float) divided by  $y$ . Write a comment of what data type  $z$  is.
5. Create as complicated or simple expression as you'd like that returns the value 1.2 (use at least one operator). Store it in a variable and print it out to the console.
- \*6. Using an operator we learned about, come up with a method for checking if an integer is even or odd.