MEET Y1 - Module 3 - Lab 1

Intro to IDLE3 - Hello World!

In this lab, you will learn how to print text (like "Hello World!") using Python in IDLE3 and add comments using '#'

Linux command used in this lab:

• idle3 & -- opens up IDLE3 for programming in Python

Python commands used in this lab:

- print () -- prints outs the text included in the parentheses
- # -- this symbol is used before a comment. Python doesn't execute anything after it

Follow these instructions:



- 0. Open a Linux terminal by double clicking on this icon:
- 1. Type startlab. Enter your username and module 3! Follow the directions to change to the new directory.
- 2. Type idle3 & to open IDLE3. A window should pop up. (See below)
- 3. In the new window, type print ("Hello World!") What do you see?
- 4. Now type print('Hello World!')

 Note: Use single quotations 'Hello World!', instead of double quotations "Hello World!". Did anything change?
- 5. Say Hello! to your partner by including his/her name. Show it to them!
- 6. Now type #print ("Hello World!")
 What happens? You have just made a **comment**. Python does not read anything after the # symbol (but people looking at your code do).

```
File Edit Shell Debug Options Window Help

Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 17:54:52) [MSC v.1900 32 b: on win32

Type "copyright", "credits" or "license()" for more information.

>>> print("Hello World!")

Hello World!

>>> print('Hello World!')

Hello World!

>>> #print("Hello World!")

>>> #print("Hello World!")
```

7. Use <u>translate.google.com</u> to translate "Hello World" into other languages,

filling out the table below. Include your own native language and add a few more! (You can even listen to the pronunciation on google.)

Language	Translation
English	Hello world
Greek	
Portuguese	
Czech	
Korean	
Chinese	
Hindi	
Swahili	

8. In IDLE3, go to File \rightarrow New File and then File \rightarrow Save As...

Name your file HelloWorld.py.

Using the table above, type the following on a new line for each language:

print("(Translation) is how you say Hello
World in (Language).")

like...

print("Hello World is how you say Hello
World in English.")

Hit the keyboard key *F5* to run your first **Python** script! And don't

forget to SAVE your file!

Bonus problems:

9. Start a new program named RobertFrost.py. Copy the text below EXACTLY as written.

```
twoRoads = "Two roads diverged in a wood, and I-"
roadTaken = "I took the one most traveled by,"
less = "I took the one less traveled by,"
theDifference = "And that has made all the difference."

roadTaken = less

print(twoRoads)
print(roadTaken)
print(theDifference)
```

Try running your code. It should work. If you get an error, fix it. Once you get it working, we're going to play with comments!

```
First, place a comment sign (#) in front of the line that begins with roadTaken = "I took..." The line should now look like this: #roadTaken = "I took the one most traveled by,"
```

Save the program and run the program again. Did anything change in the output? Why or why not?

Now, remove the comment sign!

Add a comment sign in front of the line that says roadTaken = less
The line should now look like this: #roadTaken = less

Save and run the program. Did anything change? Look closely!

10. Open and save a new file called specialCharacters.py.
Use the following table to test out printing special characters:
(Remember to press F5 to run the code)

You want	So type	Example
Double-quotations " "	\"	print(" \"Hi!\" ")
Single-quotations ' '	\'	<pre>print(" \'Hello!\' ")</pre>
Backslash \	\\	<pre>print(" \\MEET\\Module1\\ ")</pre>
new line	\n	<pre>print("first \n second")</pre>
tab	\t	<pre>print("no tab \t tab")</pre>

10. Use your new knowledge of '', ', $\$, $\$, and $\$ t to **print out** the following dialogue:

Instructor Alex asks, "What are you learning today?"

The students reply, 'We are learning how to print!'
We can type print("\\Day1\\") to print out \Day1\.

11. Save your file and type bash endlab in the Linux terminal to finish!