

Lab 2.2 First programs

Do this lab in VSCode:

Open VSCode,

In VSCode open the folder you made in week 1 (mywork) that links to your repository.

1. Create a file called helloWorld.py and write a program that prints out "Hello World", you should put comments above the command to say what the file does, I will not keep reminding you to do this

```
# helloWorld.py
# This program just prints out hello World
# author: Andrew Beatty

print ("Hello World!")
```

2. Save the file and run this program on the command line (either by CMDER or VSCODE)

```
$python helloWorld.py
```

3. Create a directory called week02
4. In week02 create a file called hello.py that just says hello

```
print("Hello")
```

5. Save the file (CTRL+S) and run it (or make sure autosave is on)

```
$cd week02
$python hello.py
```

6. Change the code to say hello your name

```
print("Hello Andrew")
```

7. Save it and see that the output has changed.
8. Make a mistake with the syntax and try to run it.

```
print("Hello Andrew"
```

9. Write a program called multiply.py that outputs what $111 * 555$ is

```
answer = 111 * 555
```

10. Why does this print out nothing, when run? Fix it!!

Don't type
the \$
I put it
here to let
you know
that this is
a prompt

Inputs

11. Create a new file called hello2.py that reads in a person's name and prints out hello that persons name

```
name = input("Enter your name:")  
print('Hello ' + name)
```

What would happen if this space was not inside the "

12. Modify to say nice to meet you after saying hello

\n is
newline

```
name = input("Enter your name:")  
print('Hello ' + name + '\nNice to meet you')  
# or you could do this with format  
print(f'Hello {name}\nNice to meet you')
```

13. Create a file called addOne.py, that reading on a number and prints out one more than that number.

```
number = int(input('please enter a number:'))  
newNumber = number + 1  
print (f'{number} plus one is {newNumber}')
```

Push your files to GitHub

14. Add you files to your repository, commit them and push them to getHub

```
$git add .  
$git commit -m "week 02"  
$git push
```

You will have to type this code int the command line.
If you try to copy and paste the command line will not like the Microsoft "

15. Check that your code is on GitHub

Extra: (Questions that I don't give the solution for)

16. Write a program (nameAndAge.py) that reads in a name and age and outputs the following (make sure you get the spaces right):

```
Hello Andrew, your age is 21.
```

17. Modify the program so that it has a tab at the end of the name, (\t)

```
Hello Andrew,    your age is 21.
```

18. Write a program that outputs 21 -4

```
17
```

19. Write a program that outputs if 2 == 3

```
False
```

20. Do some of your own messing around, look at [Python String Formatting \(w3schools.com\)](http://www.w3schools.com/python/python_string_formatting.asp)