01 Practical

Firstly get PyCharm set up!

Strings

Print out the string at each step

1. Declare a string of value "Practical"
2. Print out "act" by using indexes (string[x:y])
3. Print out the string in all uppercase and all lower case
4. Add the string " work" to the string you have defined
5. Replace "al" with "e" in the string

Working with Input

Recall that input is received like so:

```
name = input("What's your name")
```

Where the variable name will contain the input.

1. Make it so that when I enter my name it responds "Hi Nick! I'm learning python"
   Notice the different quotes!
2. Print the first letter of the entered text

Numbers

Play around with the different operators /, *, -, +

1. **Write a program that will take two numbers as input and adds the numbers together.** e.g.

What's the first number? 4
What's the second number? 2
6
Notice that input from the user is a string, which means you will need to cast it to an integer using int(string)

2. Now instead of taking input twice, let the user input both numbers at the same time. e.g.

What are your two numbers? 4 2
6

Lists

Print out the list at each step.

1. Define a list of ["Bart", "Homer", "Lisa"]
2. Add Marge to the list
3. Delete Homer from the list
4. Print the first and last elements in the list
5. Check if the list contains Bart
6. Check if the list contains Bart and Maggie

Conditionals

We want to write two separate programs

1. Define a variable called age, write an if statement so that if age less than 18 it prints "Not Entry" otherwise prints "Welcome" e.g.

How old are you? 15
No Entry

How old are you? 19
Welcome

2. Write a program that takes input from the user, it first asks their name, then asks how they are feeling. If the user enters "good" it will print "that's great!", if the user enters" bad" it prints "aw no!" if the user enters anything else it prints "kk" e.g.

What's your name? Nick
Hey Nick how you doing? Good
That's great!

What's your name? Nick
Hey Nick how you doing? eh
kk