

Python Programming Primer

Motivation

Zavya wrote some pseudo code to look for rewards.
This needs to be transferred onto the "Brain".
The brain does not speak English – but it understands Python

Goals

Understand the basics of control flow and looping ahead of the practical on Saturday morning

Rules

You can use the internet to get the documentation.
Try to avoid getting the answers directly!

<https://docs.python.org/3/library/functions.html#input>

Environment

You can use whatever is easiest for you
e.g. PyCharm, pythonanywhere, Jupyter Notebook, etc

Exercise

1. `print` your name
2. `print` your name 100 times - but only using two lines of code!
3. Using the `input` function ask for keyboard input
4. Ask for the users name and say hello to them
5. Put an `if` statement in the reply so that if the user is **you** it says how cool you are!
6. Use the `time.sleep` make a python clock that counts to ten, it must `print` the count every second (1,2,3...10)
7. Extend the program so that the counting starts after 5 seconds
8. Now write a loop that makes steps of 10 from zero to 360
9. Ask for `input` "Can I see a box?" at every step
10. `if` the answer is "yes" the loop stops and `print` "Moving towards reward!"

Bonus Exercise

This is the Fizz Buzz test

Write a program that prints the numbers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

- * Can you write this in pseudo code?
- * And in python?