



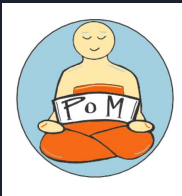
Introduction to Python

Adam Kit
Week: 20.04.20



Agenda

- Installation of Python and IDE
- Virtual Environment Setup and installing numpy
- Python Syntax
- Variables in Python



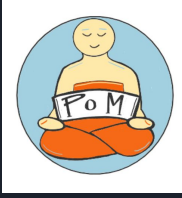
Installing Python and an IDE

[Install](#) Python - for windows users please create the environment using these [instructions](#)

IDEs and their respective download instructions

- [Atom](#)
- [PyCharm](#)
- [MS visual studio code](#)

Please go through those links, and when you have any problems I will guide you through the solution.



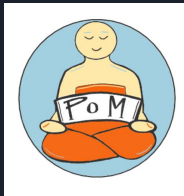
Virtual Environment setup and Libraries

Installing a virtual environment instructions : [Virtual Environment](#)

Once installed, and in the project directory (where you will be doing your coding), write the following into the terminal:

Pip install numpy

Please go through those links, and when you have any problems I will guide you through the solution.



Python Syntax and Variables

1. Execution
2. Indentation
3. Comments
4. Variables
 - a. Text type
 - i. str
 - b. Numeric
 - i. Int
 - ii. Float
 - iii. Complex
 - c. Sequence
 - i. List
 - ii. Tuple
 - iii. Range
 - d. Bool

```
1 #Sample program 3
2 print("Starting Program")
3
4
5 def create_list(some_input): #2
6     sample_list = [] #4ci
7     is_20 = False #4d
8     for i in range(50): #i: 4bi , range: 4ciii
9         if i == 20:
10             is_20 = True
11             break #1
12             sample_list.append(some_input) #1, 4ci
13     return sample_list, is_20
14 sample_string = 'Hello World' #4ai
15 sample_tuple = create_list(sample_string) #4cii
```