2-3- Python fundamental (Hands-on Session)

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Python IDE (integrated development environment):

- **Example:**
  - PyCharm
  - Visual Studio Code (VS Code)
  - **Jupyter Notebook**
  - Atom
  - Google Colab (cloud IDE)

- Which of these have you used previously?

- **Introduction to jupyter notebook and jupyter lab**
  - **What is Jupyter?** Project Jupyter is an open source project was born out of the IPython Project in 2014 as it evolved to support interactive data science and

scientific computing across all programming languages.

- Getting started with jupyter: https://realpython.com/jupyter-notebook-introduction/
- Resources: https://www.datacamp.com/tutorial/installing-jupyter-notebook

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Python Language:

Covered concepts:

	Concept	Exercise 1	Exercise 2	Exercise 3
1	Print	Link	Link Link	Link
2	Variables & Data Types & Type Conversion	Link	Link Link Link	Link Link Link
3	Lists	Link	Link	Link
4	Tuple	Link	Link	
5	Set	Link		Link
6	Dictionary	Link	Link	Link
7	Basic operators	Link	Link	Link
8	Strings	Link Link	Link Link Link	Link
9	Conditions	Link	Link	Link
10	Loops	Link	Link Link	Link Link
11	Functions	Link	Link	Link
12	Python built-in function (sort, len, zip, range)		Link Link Link Link	

			Link	
			Link	
			Link	
			Link	
13	Break & Continue		Link	
14	Lambda functions	Link	Link	Link
15	Handel exception	Link	Link	
16	List Comprehension	Link	Link	
			Link	
17	Dict Comprehension		Link	