DS016- 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

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	