Introduction & Implementation Of List in Python

- As the name suggests, List is an ordered sequence of data. In real life, if you could make a list of things that come to your mind (or event for any specific purpose), it could be something like this –
- o Brush
- o Leuven
- o 48851964400
- 0 3.14
- o Mom
- Well, this is my list. You could make your own list & include whatever you want in it. So, in my list, I have included what I do early in the morning, the city I live in, my mobile number, the value of pi to two digits, and mom. It has different types of data strings, float, and integer.
- Well, this is the kind of flexibility Python List provides. It can hold different types of data types. Declaring a List is fairly straightforward. You use square bracket ([]) and separate the items by a comma. Let me write an example A = ["Brush", "Leuven", 48851964400, 3.14, "Mom"]
- **Lists are mutable.** Say if you want to change some item on a List, you can do that. For example, if I don't like 'Brush'', and want to replace this with 'Morning Walk', I can do it A = ["Morning Walk", "Leuven", 48851964400, 3.14, "Mom"]
- Some **essential features** of Python lists are:
- Collection of values
- Can be of any data type
- Can be a combination of different types

Note: The tutor in this video used python console. Nothing to worry here, you can use the same code and run it on jupyter notebook too.

Youtube Link -

https://www.youtube.com/watch?v=pP91kLR5cnE&feature=youtu.be

List Methods

.append()

In Python, you can add values to the end of a list using the .append() method.

count()

The .count() Python list method searches a list for whatever search term it receives as an argument, then returns the number of matching entries found.

len()

The Python len() function can be used to determine the number of items found in the list it accepts as an argument.

.sort()

The .sort() Python list method will sort the contents of whatever list it is called on. Numerical lists will be sorted in ascending order, and lists of Strings will be sorted into alphabetical order. It modifies the original list, and has no return value.