List ...Cont...

Object Oriented Programming

What we learnt??

- Storing of data.....
- Primitive data structures—like numbers, strings, and lists—are designed to represent simple pieces of information, such as the cost of an apple, the name of a poem, or your favorite colors, respectively.

- note book - jupyter
- Slicing of a List

Slice Operation

- To print a specific range of elements from the list : Slice operation.
- Slice operation is performed : colon(:).
- To print elements from beginning to a range use [: Index]
- To print elements from end-use [:-Index]
- To print elements from specific Index till the end use [Index:]
- To print elements within a range - use [Start Index:End Index] and
- To print the whole List with the use of slicing operation, use [:].
- To print the whole List in reverse order, use [::-1].

What if we wanted to store.....

- to track employees in an organization.
- You need to store some basic information about each employee, such as their name, age, position, and the year they started working.

Ways:

- List :
  - kirk = ["James Kirk", 34, "Captain", 2265]
  - spock = ["Spock", 35, "Science Officer", 2254]
  - mccoy = ["Leonard McCoy", "Chief Medical Officer", 2266]

Issues.....

- It can introduce errors if not every employee has the same number of elements in the list. In the mccoy list above, the age is missing, so mccoy[1] will return "Chief Medical Officer" instead of Dr. McCoy’s age.
- it can make larger code files more difficult to manage

classes

- How to Define a Class