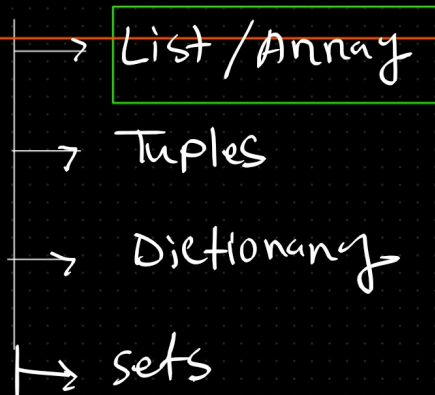


Python

- ✓ ① Python Basic
- ✓ ② Data Type in python
- ✓ ③ python Indexing
- ✓ ④ Type casting and slicing
- ✓ ⑤ operators in python
- ✓ ⑥ Relational Logical and identity Relationship
- ✓ ⑦ String formatting
- ✓ ⑧ conditional statement → if else
- ✓ ⑨ loops → for, while
- ✓ ⑩ Nested loops, pattern, Range function

⑪ Python Data Structure → Bappy



- ⑫ Function in python
- ⑬ OOPS → Object oriented programming
- ⑭ Rest API
- ⑮ DataBase
- ⑯ python projects

Lists / Array

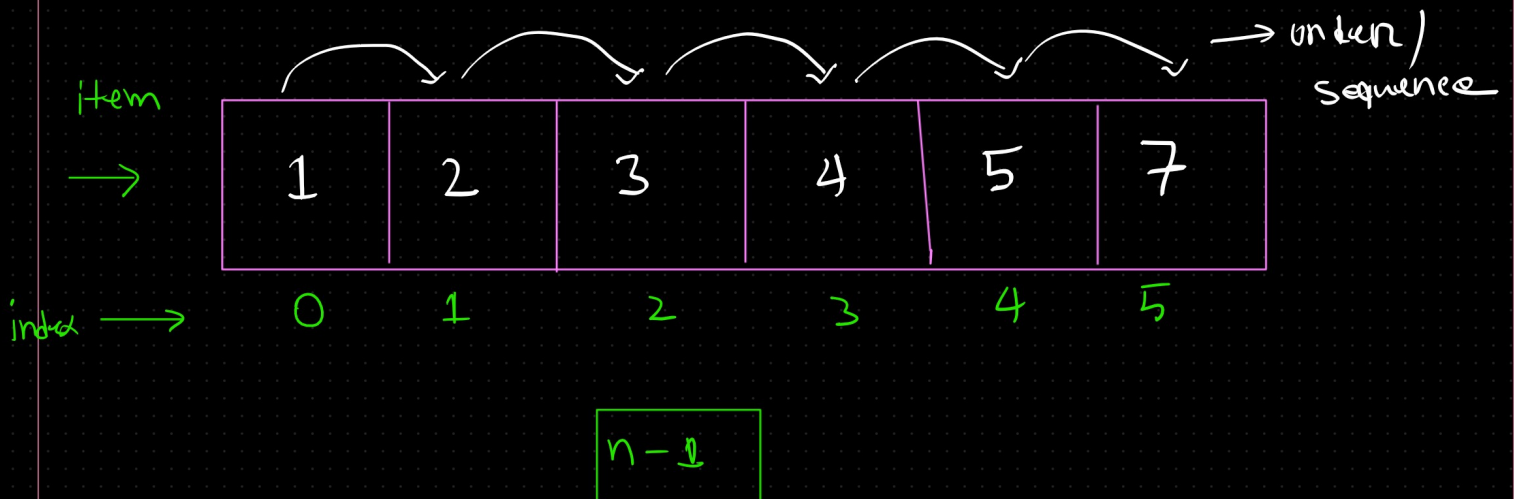
- * Lists are ordered collection of data items.
- * They store multiple items in a single variable
- * List items are separated by commas and enclosed within square brackets $\rightarrow []$
- * List are changeable / mutable — meaning we can alter them after creation.

Example:

lst1 = [1, 2, 3, 4, 5, 7]

lst2 = ["Bappy", "Alex", "Sunny", "Krish"]

lst3 = ["Bappy", 1, 0.3, True]



Variable

a = 3

b = 4

0
3
memory
loc

10
4
memory
loc

RAM

→ 0	X	X	X	2	X	X	X	X	3
→ 1	X	X	1	2	3	4			
→ 2				X		X		X	
→ 3				X	X		X		
4					X				
5									
6									

b = 3
a = 2

lst = [1, 2, 3, 4]
0 1 2 3

Why list Data Structure Important?

Shreeol →

class-1 = ["Bappa", "Alex", "Krish", "Sunny"]

class-2 ⇒ ["prince", "Sandeep", ...]

class-3 ⇒ ["", "", "", ""]

print(class2) →

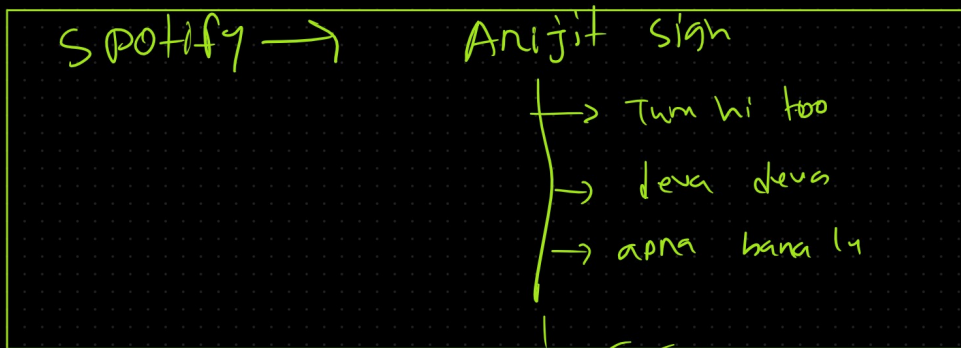
class -1-1 \Rightarrow "Barry"

class -1-2 \Rightarrow "Alex"

class -1-3 \Rightarrow "Kris"

print (class-1)

print (class-1)



← user

Programmer \rightarrow Ankit \Rightarrow ["Tum hi ho", "Jawa deew", "apna bana li"]

lst \Rightarrow ["Barry", "Barry"]
0 1

color \Rightarrow ["Yellow", "Green", "Red"]

if "Red" in color:

print ("yes")

