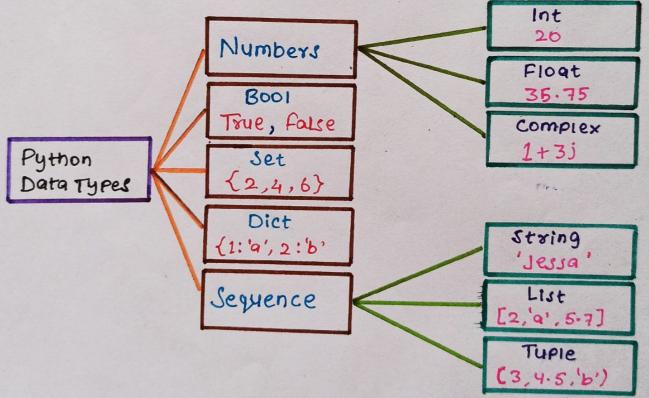
PYTHON SES SHORT NOTES

* What is Python?

> Python is a high-level, interpreted, Interactive, and object oriented scripting language. Python is designed to be highly readable. It uses English Keywords frequently where as other languages use punctuation.



* Advantages & Disadvantage

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NOTES GALLERY (TELEGRAM).

Advantages	Disadvantages
· Improved productivity	· Slow speed
· Interpreted language	· Not memory Efficient
· Dynamic Typed	· Database Access.

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continue ->

- · Free & open source
- · Vast libraries support
- · Runtime Errors.
- · Weak in mobile computing.

* Hello, world in Python

> print ("Hello, World!")

Output :-

Hello, World!

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* LOOP

A 100p statement allows us to execute a statement or group of statements multiple times.

TYPES OF LOOP

1. While loop

Repeat a state

-ment while a

given condition

is true:

It tests

condition before

executing.

2. For Loop

executes a sequence of statements multiple times and abbreviates code that manages loop variable.

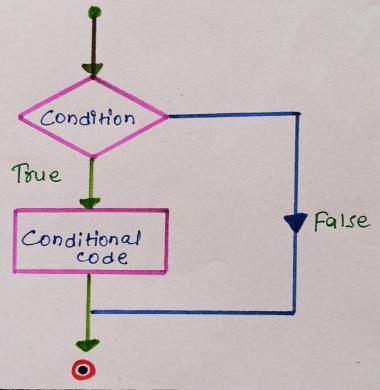
3. Nested Loop.

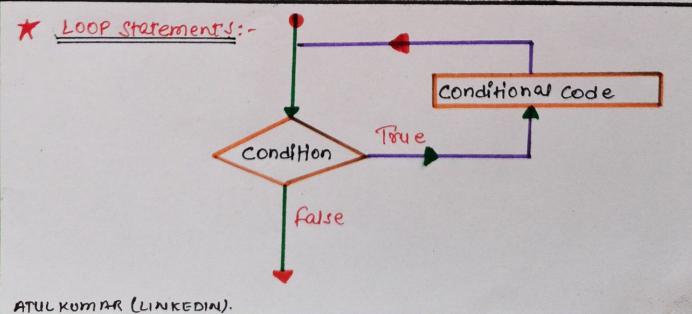
you can use one/more loop inside any other loop.

* Basic Tuple operation

Pythonexpression	Reswts	Description.
len ((1,2,3))	3	" length
(1,2,3)+(4,5,6)	(1,2,3,4,5,6)	. concatenation
('41!',) *4	('HI!', 'HI!', 'HI!', 'HI!')	Repetition
3in (1, 2,3)	True	Membership
for x in (1,2,3): Print x,	1,2,3	Iteration

Python Decision Making NOTES GALLERY (TELEGRAM).





Tuples responds to the + and * operators. much like "strings", then they mean concarenation and repetition here too.

except that result is a new tuple, not a string.

In fact, tuples respond to all the general sequence operations we used on strings.

* Syntax: Java vs Python

Unlike other programming languages, python provides the facility to execute the code using few lines.

In Java, it will take three lines to print it.

// Code in Java:

| Public class MelloWorld {
| Public Static void main (string [] args) {
| System.out. Printin("Hello, World!");
| }
| }

On the other hand, we can do this using one line. # code in python print ("Hello!!")

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votes = {'red': 3, 'blue': 5}	
# Output: ['blue', 'red'].	
# add a key/val	
# deletes key	
# change value	
# 2	
# [6,3]	
# False	
# True	

×

* Numbers :-

total = 3 * 3	# Output : 9
tatal = 5+2 *3	# Output: 11
cost = 1.50 + 3.75	# Output: 5.25
toral = int("9")+1	# Output:10

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* Tuples :-

tuple 1 [3] # (a)

tike lists, except they cannot be changed

tuple 1 = (1,2,3, "a", "z") # create tuple

(a)

INTERVIEW QUE.

* what is scope?

> Every object in python functions within a scope. A scope is a block of code where an object in python remains relevant. Namespaces uniquely identify all the objects inside a program.

Mowever, these namespaces also have a scope defined for them where you could use their objects without any prefix.

- · A local scope refers to the local objects available in the current function.
- · A global scope refers to the objects available through the code execution since their inception.
- · A module level scope refers to the global objects of the current module accessible in the program.
- An outmost scope refers to all the built in names call able in the program. The object in this scope are searched last to find the name refferenced.

- * What are global, Protected & Private attributes?
- > Global variable:

 Global variables are public variables that are

 defined in the global scope. To use the variable in

 the scope inside a function we use global keyword.
 - · Protected attribute:

 protected attribute are attributes defined with an underscore prefixed to their identifier.

Private attribute:

Private attributes are attributes with double underscore prefixed to their identifier.

They cannot be accessed / modified from the outside directly and will result in Attribute Error if such an attempt is made.