

- 1) Need for 'FOR' loops
- 2) List
- 3) range()
- 4) jumps in range
- 5) Complete for loops and problems.

while Condition_is_true :

Do this thing
again

Note: To exit out of loop
either break statement
should be executed
or Condition should
be false.

FOR

2)

for element in $\text{range}(a, b):$

do this again
or again

→ Loop will execute fixed number of times depending on `range` function

↔ List

↳

$a = 1$

$a = \text{"Hello"}$

→ Multiple Values in the Same Variable

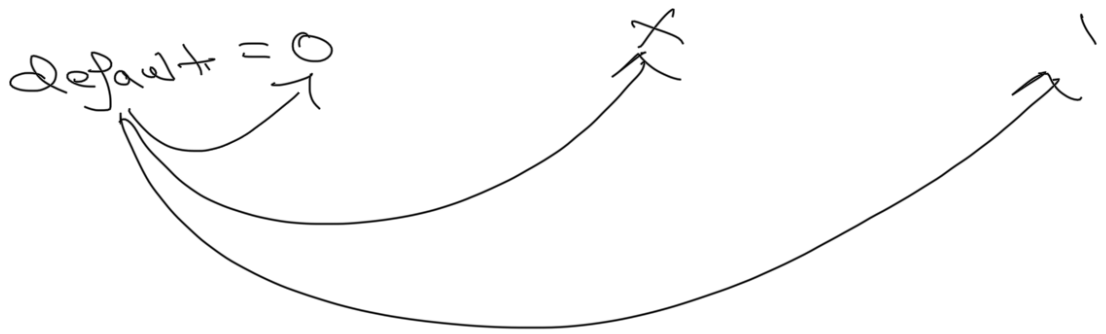
→ Collection of data

$a = []$

Q = ['Hello', 'Section', 'abc']
 ↑ ↑ ↑

Range
↔

range (start , end , jump)

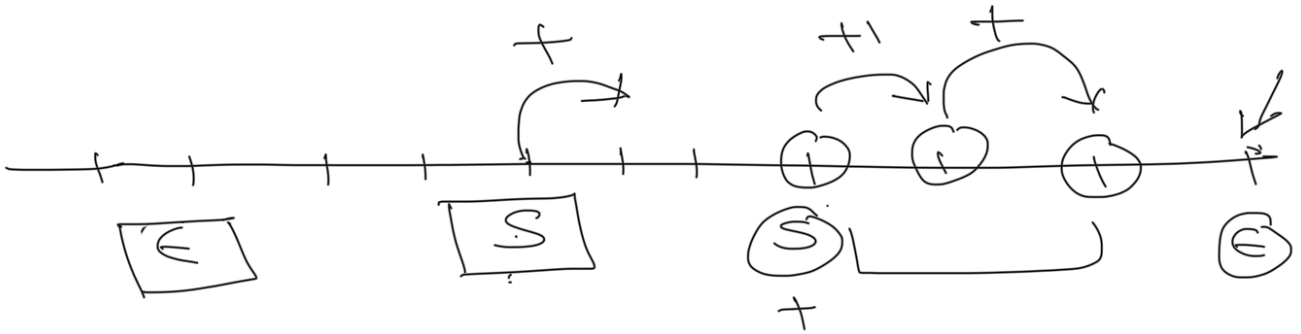


range (1 , 8 , 1)
↓

[1 , 2 , 3 , 4 , 5 , 6 , 7] ✗

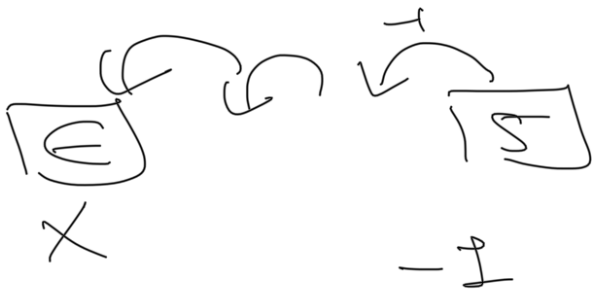
2) [1 , 8) ⇒ all numbers between 1 to 8 (Not included)
Not included

+ve jump

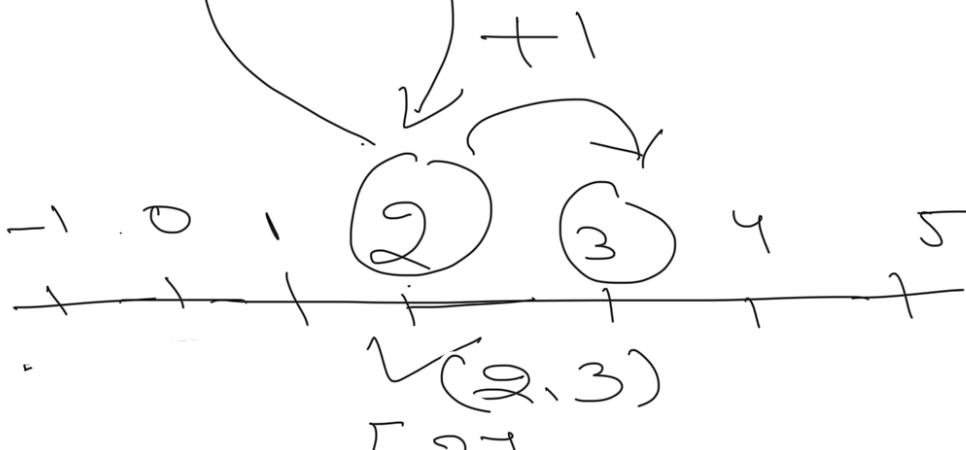


[]

-ve jump



(2,2) \Rightarrow []
 +1



(2)

2, 2

S

$c = 0$

$a = 5$

$b \Rightarrow 8$

Expected Result

$5 + 6 + 7 + 8$

for i in range($a, b+1$):

$c = c + i$

$c += i$

print(c)

$i = 5$	$c = 0$	✓
$i = 6$	$c = 5$	✓
$i = 7$	$c = 11$	✓
$i = 8$	$c = 20$	✓
$i \Rightarrow 9$	X	

$a = 3$

$c = 1$

~~1 x 0 = 0~~
~~0 x 2 = 0~~

for i in range(1, n + 1) ~~0 x 3~~

$$C = C \times i$$

i = 1	C = 1	1 x 1
i = 2	C = 1	1 x 2
i = 3	C = 2	2 x 3
i = 4	C = 6	X

print(C)

↓

6