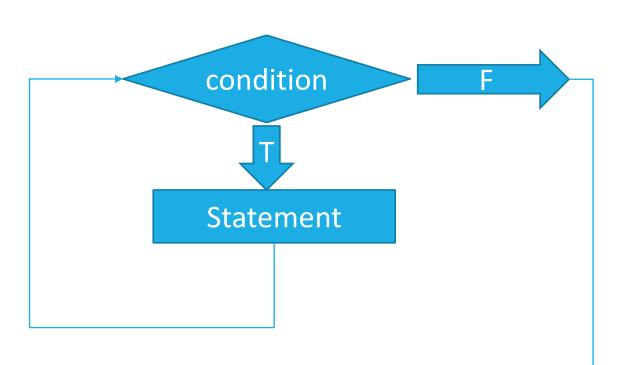


Loop

loop is used for iterating over a sequence

while loop for loop





While Loop

Syntax:

while condition:
 #statement
#increment/decrement

For Loop

Syntax:

```
for var in sequence: #statement
```

Where:

statement is:

range(start, end,I/D)

string

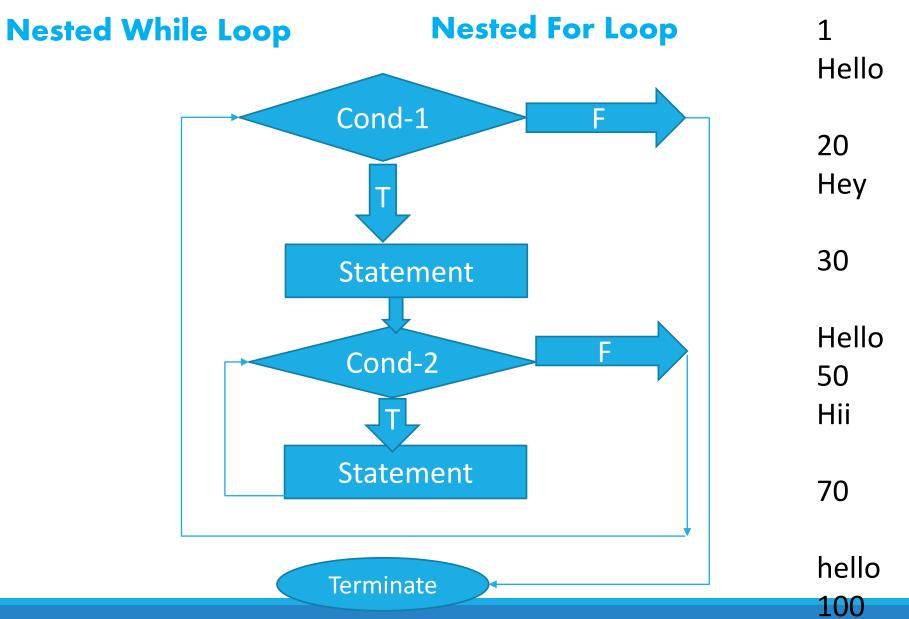
tuple

list

Dict

set





Nested For Loop

	0	1	2	3	4
0	*				
1	*	*			
2	*	*	*		
3	*	*	*	*	
4	*	*	*	*	*

Break

Continue

Pass

String data type

String is Immutable and ordered

'·'	or "	<i>'</i>
<i>…</i>		
	'''	
Or		
<i>(()) </i>		
	- ,,,,,,	

String data type

String Operation

String Method & Function

a= "Hello" str()

a.upper() len()

a.lower() min()

a.capitalize() max()

a.count() type()

List data type

Mutable and ordered

4	length = 5				
	ʻp'	'r'	'o'	ʻb'	'e'
index	0	1	2	3	4
negative index	-5	-4	-3	-2	-1

Method & Function

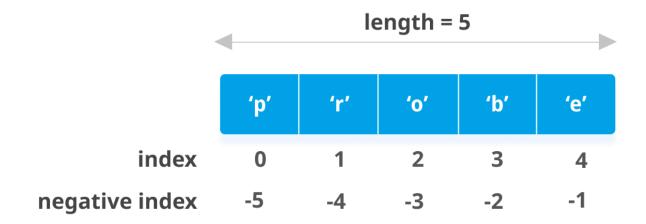
a.copy()
clear()
append()
insert()
index()
extend()
sort()
count()
remove()
reverse()
pop()

list(sequence)
len(a)
min(a)
max(a)
del var

Tuple data type

Immutable and ordered data type

()



Method & Function

count()

index()

tuple(sequence)

len()

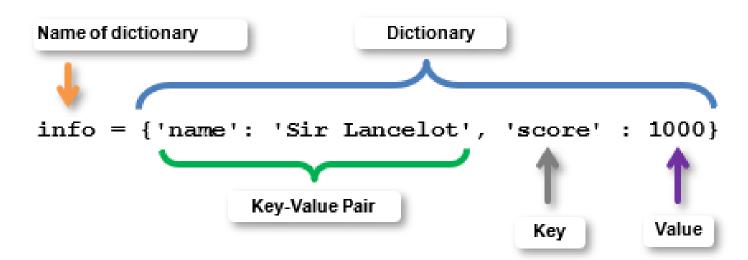
min()

max()

del var

Dictionary data type

Mutable and unordered data type



Method & Function

Method
clear()
copy()
fromkeys()
get()
items()
keys()
pop()
popitem()
update()
values()

Function

A function is a block of code which only runs when it is called.

```
Syntax:

def function_name(para1,para2,.....para-n):
    #block

function_name(arg1,arg2,.....arg-n)
```

Scope of Variable

local variable global variable



User-defined function: add(), sub() In-build function: print(), type(), int(), input() Recursion function Anonymous function (Lambda function)

Return Statement

The Return statement is used to exit a function and go back to the place from where it was called.

Recursion Function

A function is calling itself is called recursion function

Anonymous Function

A function without name