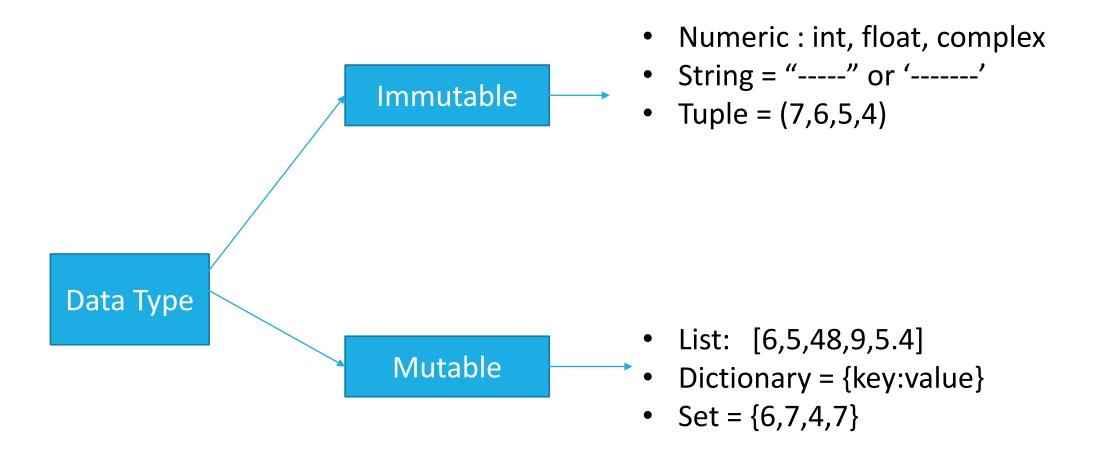


Variable

Keyword





List, tuple, dict, set working as a container



Input & Output function

$$Y = 2x + 5$$

Take input (x)

$$Y = 2x + 5$$

input([Prompt])

as string

Output()
y

print(y)



Find the value of these questions, where x=5.

$$\frac{2x+5}{x^2+5x+6}$$
 0.267

$$\frac{x^2 + 5x + 6}{2x + 5}$$
 3.733

$$(2x-3)(x+9)$$
 98



Operators

- 1. Arithmetic operator
- 2. Assignment operator
- 3. Relational Operator
- 4. Logical operator
- 5. Bitwise operator
- 6. Identity operator
- 7. Membership operator

6+8



Arithmetic operator

Addition	+
Subtraction	-
Multiplication	*
Division	1
Exponentials	**
Module	%
Floor division (Integer Division)	//



Assignment operator

Relational operator

=	A=7	
+=	a+=b	a=a+b
-=	a-=b	a= a-b
=	a=b	a= a*b
/=	a/=b	a= a/b
%=	a%=b	a= a%b
//=	a//=b	a= a//b

>	T/F
<	
>=	
<=	
!=	
==	



Logical Operator

and	&	
or	1	
not		
xor	٨	

a	b	and	or	xor	not(a)
T(1)	Т	Т	Т	F	F
F(0)	Т	F	Т	Т	Т
Т	F	F	Т	Т	F
F	F	F	F	F	Т



Identity Operator

Membership Operator

is

is not

in

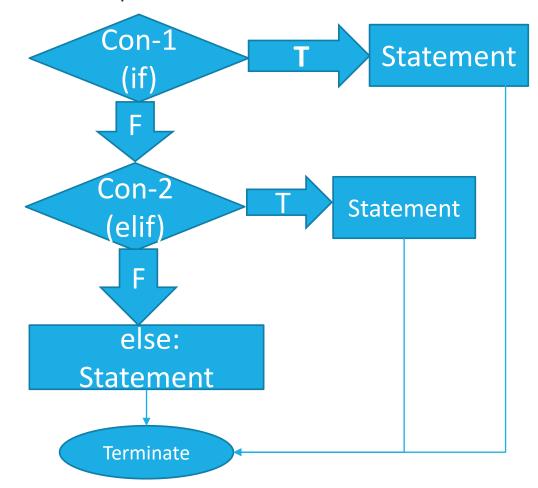
not in



Conditional Statement

Conditional Statement in Python perform different computations or actions depending on whether a specific Boolean constraint evaluates to true or false.

if-elif-else



if condition-1:
 #statement
elif condition-2:
 #statement
else:
 #statement

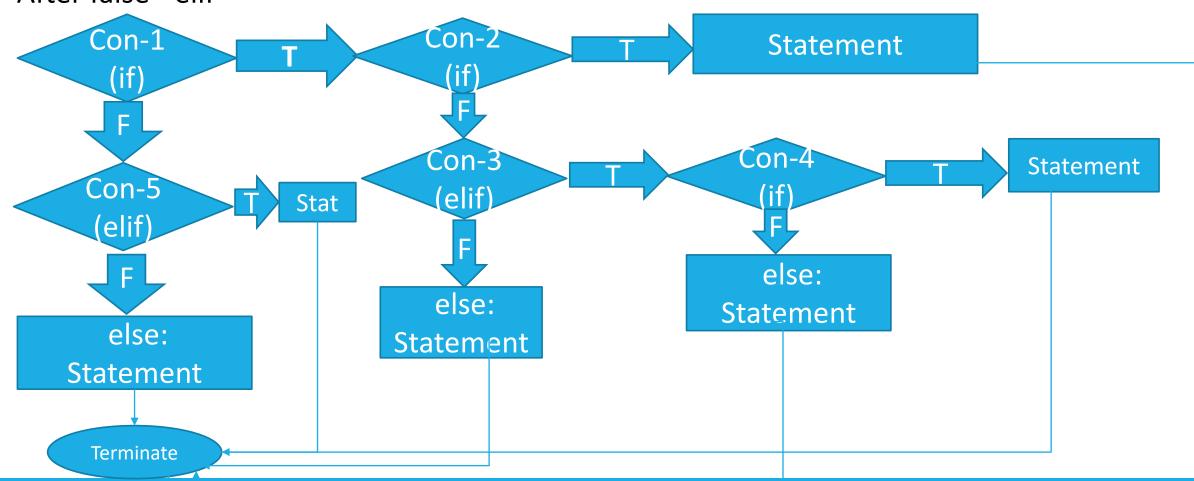


How condition will start

Primary condition – if **Nested Conditional Statement**

After true – if

After false - elif

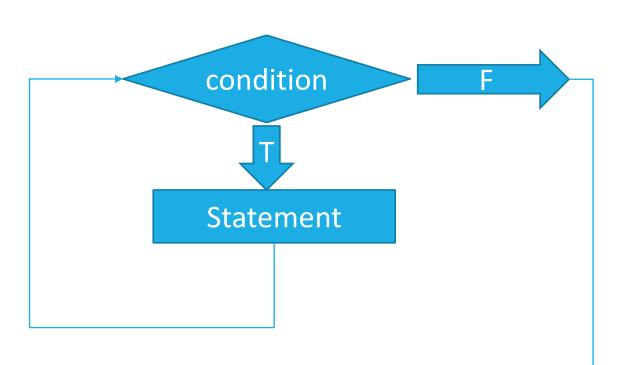




Loop

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

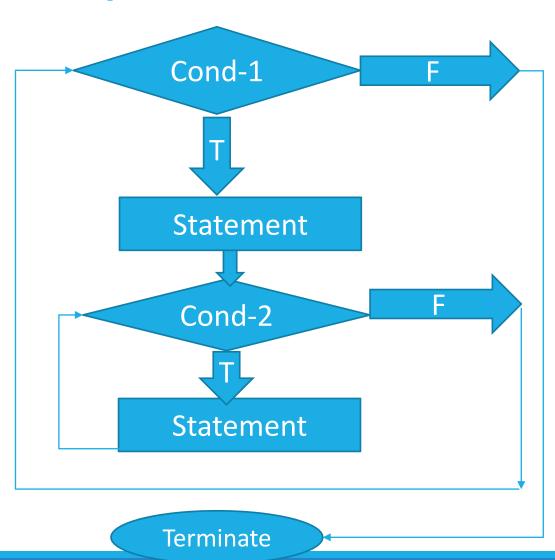
Dict

set



Nested While Loop

Nested For Loop



Nested For Loop

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

Assignment

Username & Password Login