

8/9/25

~~Special operators~~ :-

~~Some~~ Exactly

Identify operators :- IS, IS not

$a = 9$

$b = 9$

a is b

True

a is not b

False

1) Conditional statements :-

1) If statement - Executes ^{a block} only if condition is true.

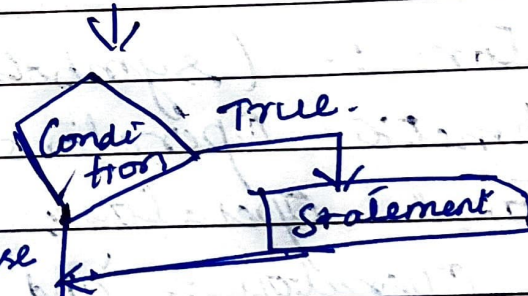
Syntax :-
If (condition):
 statements

If statement

$x = 2$

If ($x > 5$):

 print ("x is greater than 5")

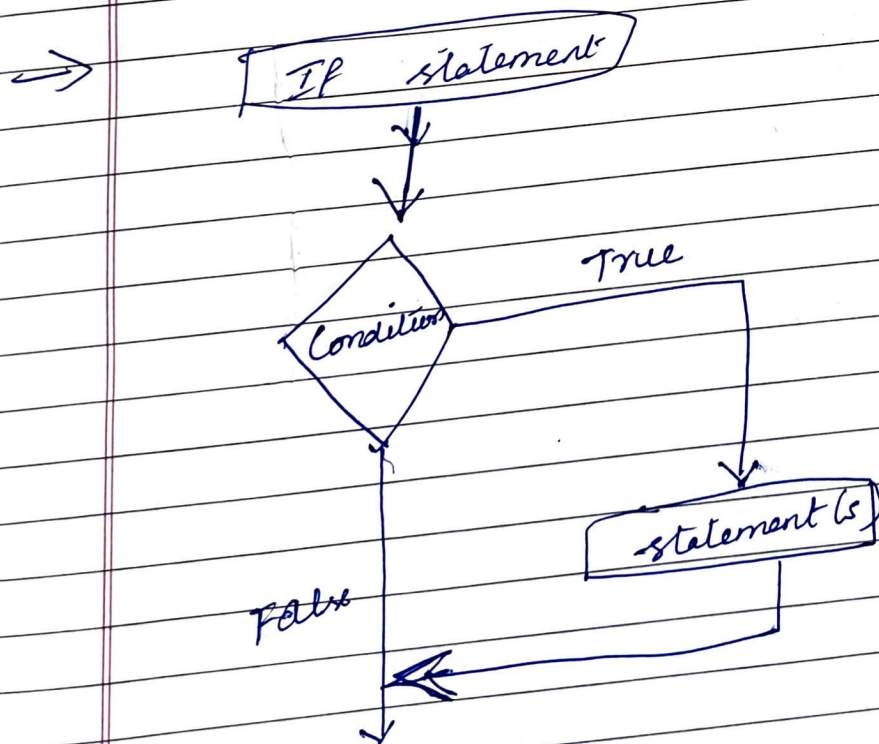
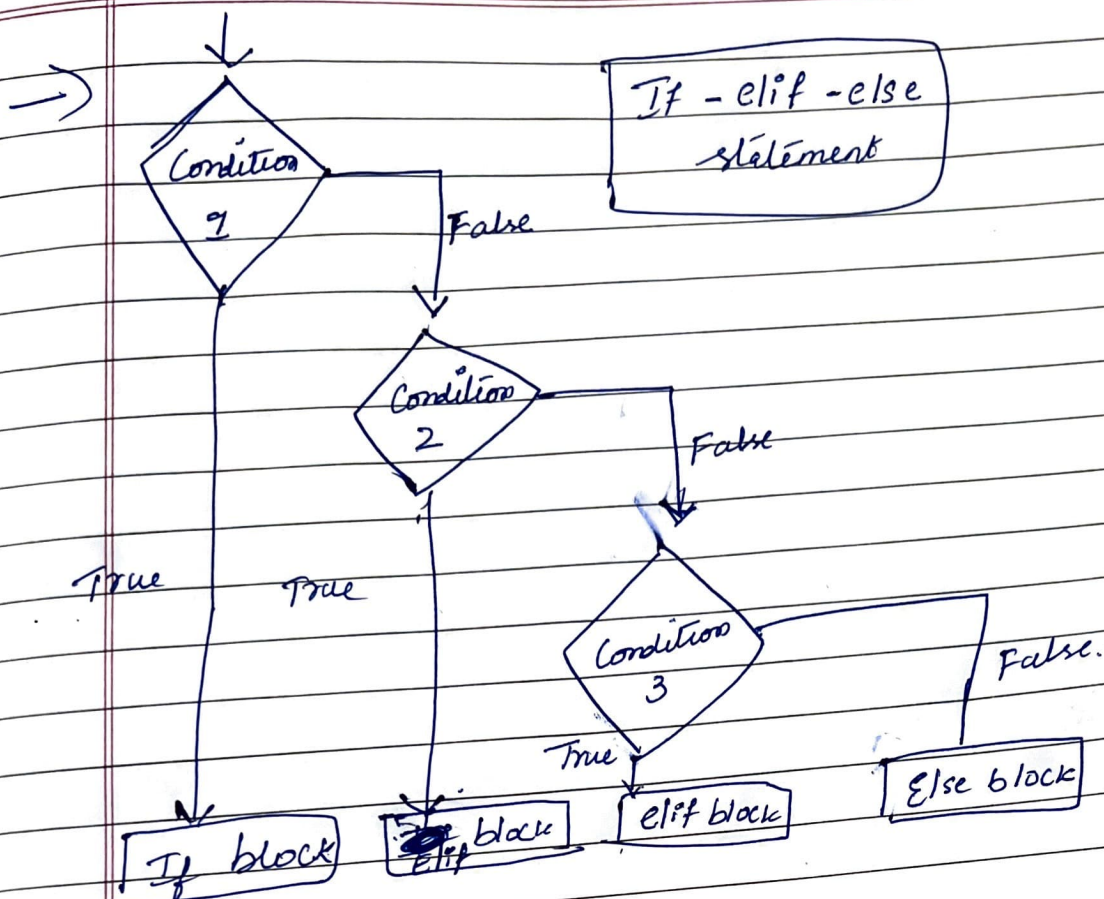


2) If... else statements :-

Syntax :- If (condition):
 statements

Else :

 statements




```
[13]: print(f" sum of {a}+{b}+{a}+{a}={a+b+a+b}")
      sum of 2.0+2.0+2.0+2.0=8.0
```

```
[1]: #Identity operators
      a=9
      b=9
      a is b
```

[1]: True

```
[2]: a is not b
```

[2]: False

```
•[7]: #Membership operators
      IN , NOT IN
```

Examples:

I am a member of your family -False (in operator)

I am not a member of your family- True (not in operator)

your a member of your family- true (in operator)

your not a member of your famly - false (not in operator)

Cell In[7], line 2

IN , NOT IN

^

SyntaxError: invalid syntax

```
[9]: pet=['dog','cat','cow','rabbit']
```



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```
[9]: pet=['dog','cat','cow','rabbit']
```

```
'cat' not in pet
```

```
'lion' not in pet
```

```
[9]: True
```

```
[ ]: # conditional statements: It is allow us to make decisions in code. they check conditions (expressions) and execute different blocks of code accordingly
```

types of conditional statements:

1. if statement - execute a block only if condition is true

2. if ..else statement - provides two paths: one if condition is true, another if false

3. if ..else..else ladder - multiple conditions checked one by one

4. Nested if - using one if inside another

```
•[19]: #examples of if..else :
```

```
x=2
```

```
if(x>5):
```

```
    print("x is greater than 5")
```

```
else:
```

```
    print("x is not greater than 5")
```

```
x is not greater than 5
```

```
[ ]: #examples of if..else ..else ladder:  
condition can be written in if place  
statements written in else
```

syntax:

```
if (condition1):
```



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4. Nested **if**- using **if** inside another

•[19]: #examples of **if..else** :
x=2

```
if(x>5):  
    print("x is greater than 5")  
else:  
    print("x is not greater than 5")
```

x is not greater than 5

[]: #examples of **if..else ..else ladder**:
condiion can be written **in if** place
statements written **in else**

syntax:

```
if (condition1):  
    statements1  
elif(condition2):  
    (statements2)  
elif(condiiton3);  
    (statement3)  
else:  
    statemnts
```