→ CONDITIONAL STATEMENTS :-

a) IF Statement :-
Runs a Block of code only if the Condition is true.

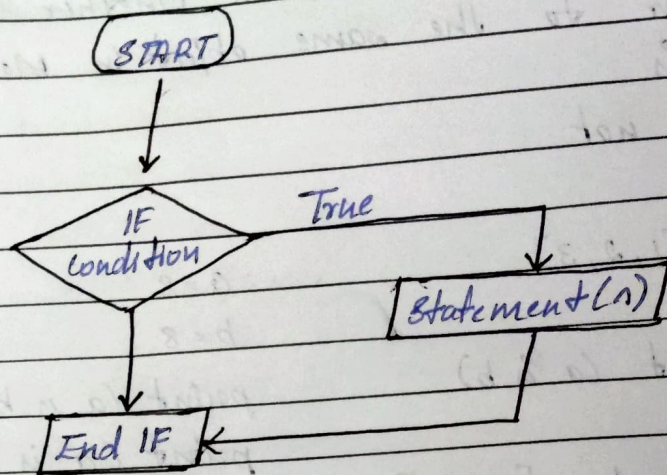Syntax:
if Condition:
    # Code

Flowchart for IF statement

```
        ( START )
            |
            v
         /  IF  \        True
        < condition >---------------+
         \        /                 |
            |                        v
            |                 [ Statement(s) ]
            |                        |
            v                        |
        [ End IF ] <-----------------+
```

ex:-   age = 20
       if age >= 18;
           print ("Adult")

b) IF - ELSE Statement:-
Two possible paths,
if condition is True → run if Block
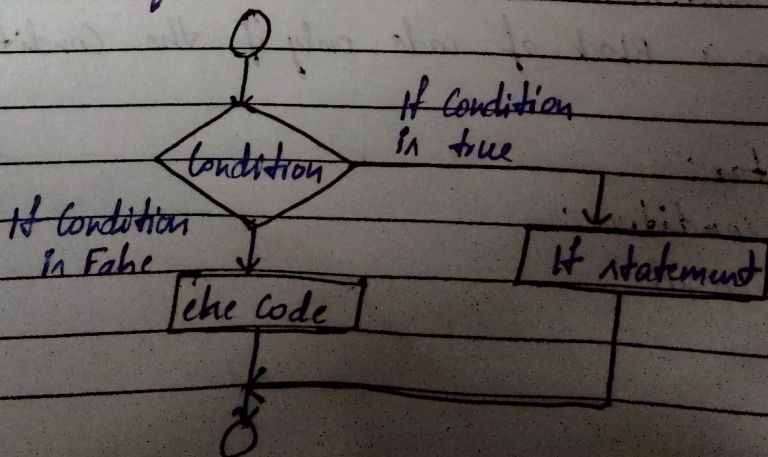if Condition is False → run else Block

Syntax:
    if condition:
        # code is True
    else:
        # code is false

Flowchart for IF-ELSE statement

```
              O
              |
              v
           / Condition \        If Condition
          <            >----------- is true
           \          /                |
  If Condition  |                      v
  is False      v                [ If statement ]
          [ else code ]                |
              |                        |
              v                        |
              8
```

ex: age = 15
```
if age >= 18:
    print ("Adult")
else:
    print ("Minor")
```

c)   IF - ELIF - ELSE Statement
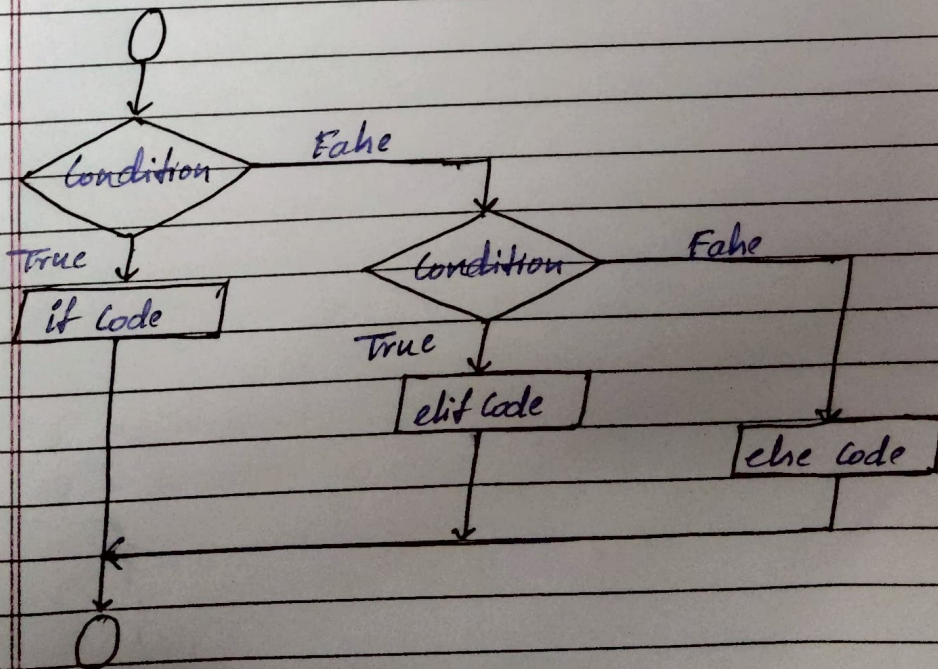Used when we have multiple conditions to check

Syntax:
```
if condition1:
    # code
elif condition2:
    # code
else:
    # code
```


Flowchart for IF - ELIF - ELSE statement

```
ex:-  marks = 72
      if marks >= 90:
          print ("Grade A")
      elif marks >= 70:
          print ("Grade B")
      else:
          print ("Grade C")
```