

Conditional statements allows you to execute code based on condition evaluates to True or False

Types of conditional statements :

1. if
2. if-else
3. if-elif-else
4. Nested ifelse

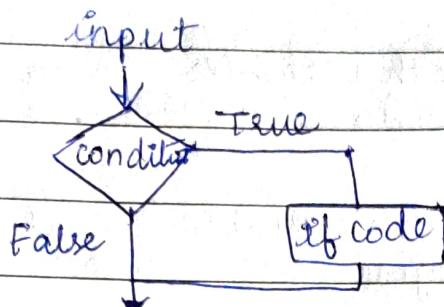
5. if else if ladder / continuous if else

1. if statement : used to test a condition and execute a block of code only if the condition is true

Syntax : `If (condition):
statements`

(# Indentation - whitespace at the beginning of a line)

if statement flow diagram



Eg : age = 26

```

if age > 19:
    print ("You are an adult")
  
```

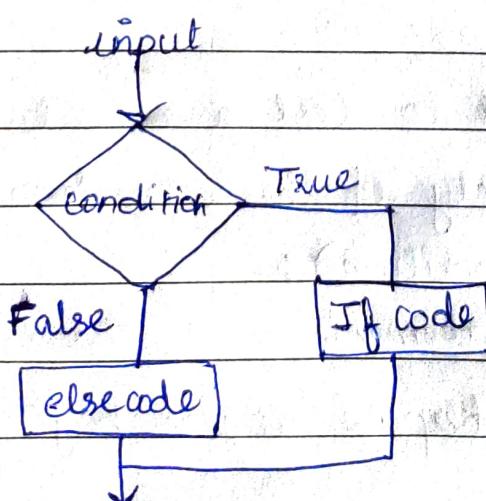
- ii) 'if-else' statement: provides an alternative block of code to execute if the condition is false

Syntax:

```

if (condition):
    statement of if
else:
    statements of else.
  
```

Note: We cannot write conditions in else.



iii) if - elif - else conditional statement

Syntax:

if (condition1):

code to execute if condition 1 is true

elif (condition2):

code to execute if condition 2 is true

else:

code to execute if none are true

eg. score = 85

if score >= 90:

 print("Grade - A")

elif score >= 80:

 print("Grade - B")

elif score >= 70:

 print("Grade - C")

else:

 print("Grade - D")

iv) Nested 'if-else' conditional Statement:
placing an if-else statement inside another
if-else statement.

Syntax :

if condition 1:

code block for condition 1 being True

if condition 2:

code block for condition 2 being True

else :

code block for condition 2 being False

else :

code block for condition 1 being False

eg .

If number > 0 :

if number % 2 == 0 :

print ("The number is positive and even")

else :

print ("The no is positive and odd")

else :

if number == 0 :

print ("The number is zero.")

else :

print ("The number is negative.")