

Else suite

```
if condition: { If condition is
    ----- true then this if
    -----
    -----
else:
    -----
    -----
    ----- { if condition is false
    ----- then this else block
-----
-----
-----
-----
```

True-> if block is executed

False->else block is executed

What is else suite?

- The else suite will be always executed irrespective of the statements in the loop are executed or not.
- If block can be written with while as well as it can also be written with for loop and also along with try block.

How else suite is useful with while

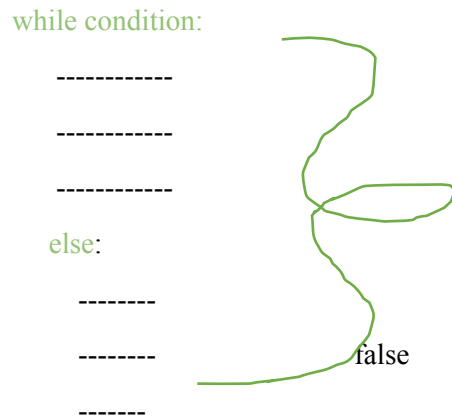
Sample:

While condition

```
----- as long as this condition is true
----- ← its get executed repeatedly
-----
-----
```

And once the condition becomes false it will come out of the loop and executes next statement.

We can also write else block.



- if false it will come to else block
- Suppose if this loop is stopped using `break` statement without becoming false. Then this else block will not be executed.
- This else block will execute if only condition becomes false.
- So, it is like `if else` statement means true `if while` is executed and if it is false else will be executed.
- if `while` never becomes false then else block will never be executed. so, this else block can be used to confirm that while loop has successfully executed without any break.

Working of else suite

Coding

Input:

```
count=1
while count <= 10:# repeating while loop as long as the count is < or
= 10
    print(count) # printing count
    count += 1# and then count++
else:
    print('printed all 10 numbers')# confirms loop has stopped
normally by becoming false
    print('end of program')
```

Output:

1
2

3..... 10

printed all 10 numbers

- it has printed all the 10 numbers and also shows that it jumped to else on becoming false
- Now we will use break to stop the loop

Input:

```
count=1
while count <= 10:# repeating while loop as long as the count is < or
= 10
    print(count) # printing count
    count += 1# and then count++
    if count>5:# the loop stops at count 5
        break# using break to stop the loop
else:
    print('printed all 10 numbers')# confirms loop has stopped
normally by becoming false
print('end of program')
```

Output:

1

2

3

4

5

end of program

- so, else block is used to confirm that while loop has executed successfully. and it stops when it becomes false.
- If it stops abruptly using break then else will not execute.