

Day - 2

If, Else statements:

1) If statement: Statement to execute if the given condition is true

2) If-else statement: Execute the block if the condition is true (If).
Execute the block if the condition is false (else)

- remember it can be executed only any one statement at a time.
- if else statement we should not write any condition

3) Nested - if statement: It is used when you are having if statement within the if statement. This kind of situation occurs when you want to filter the variable multiple times

- you can have as many as levels of nesting but more nesting requires more optimization of programme.
- It is recommended to use less nested statement or completely avoid it

4) If, elif - else statement: If you want another condition having more steps

Loops: A loop is a instruction that repeats multiple times as long as some condition is met.

While loop, For loop, Nested loop

1) While loop: the while loop is used to repeat a section of code an unknown number of times until a specific condition is met.

2) For loop: the for loop is used to iterate over a sequence, which could be a list, tuple, array or a string

3) Nested loop: python also allows loops to be nested. Nested loops could be:

for in for
for in while
while in while
while in for

Loop Control Statements: It will alter the regular flow of a loop

- 1) Break: Transfers control to the statement right after the loop
- 2) continue: Skips the statements following it and returns control to the beginning of the loops.

Array: It is a container that holds multiple values of same type

Type Code	C Type	Python Type	Size
'c'	char	character	1
'b'	signed char	Int	1
'B'	unsigned	Int	1
'u'	Py-unicode	unicode	2
'h'	signed short	Int	2
'H'	unsigned short	Int	2
'i'	signed int	Int	2
'I'	unsigned int	long	2
'L'	unsigned long	long	4
'l'	signed long	Int	4
'f'	float	float	4
'd'	Double	float	8