

15/8/24

Lect #10 Conditions & loops

... Revision of previous lectures

... control structures (decision)

⇒ "if" (take condition & evaluate)

if (condition):

statement 1

statement 2

⋮

statement n

example

↳ is passing grade

↳ checking positive number & negative number

↳ square of number if greater than

↳ checking different case.

⇒ "if else"

if condition:

statement

else:

statement

evaluates condition

& will execute body

of if only when test
condition is "true"

example

↳ grade example

↳ positive number / negative

if (condition) :

statement

check multiple condition

elif () :

statement

else

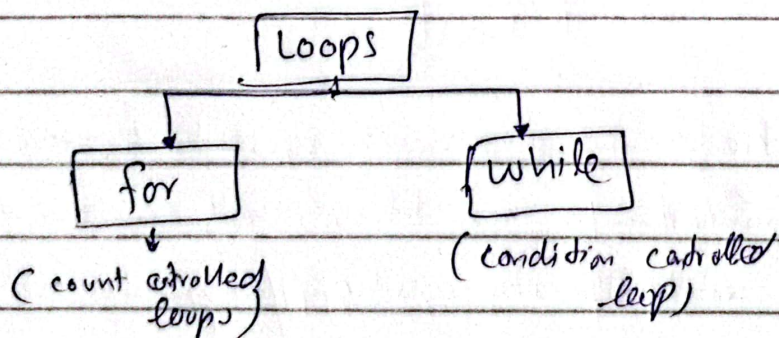
statement

↳ examples

↳ Password checking (expected password)

(Loops)

↳ repetitive structure (for repetition)



Syntax

for in :

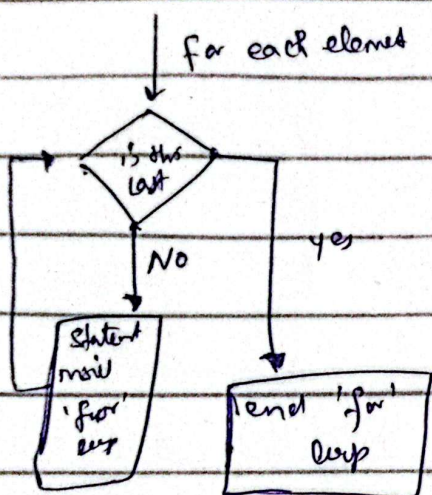
example

Printing string/nums
for i in range(10):
 print("Hi")

↳ Looping through list

```
list = ('a', 'b', 'c', 'd')
```

```
for alpha in list:  
    print(alpha)
```



↳ Looping through string

↳ Range()

start, end

↳ example

↳ finding even number in list

↳ example

(i) Average of list of numbers

Looping Through dictionary

```
my_dict = { "name": "Fahad", "age": 18 }
```

```
for value in my_dict.values():  
    print(value)
```