Agenda

Recap
if else nested if else
while loop
for loop

Recap

→ Data types

Key :— ① Mutability (vs) immutability

② Specific methods ∈ data type

③ Each method fun (it is updating on pame memory (or)
   (modify, remove, deleting)   diff memory)

④ Syntaxes

⑤ when to use which datatype

if else & nested if else

if else :-

if (Condition) : ——> True / False

    { ≡ }

Else :

    ≡

Ex:-

```
pwd = input ("Enter the password:" )

if pwd == "1234" :
    print ("your pswd is correct, please gohead and willdraw money")
    print ("1. willdraw , 2. Balance Eng ")
else :
    print ("you Entered incorrect pswd")
```

while Loop
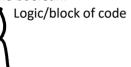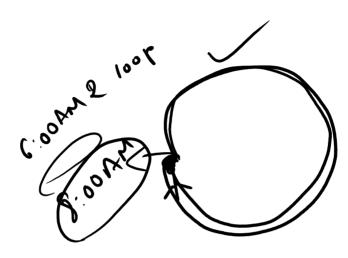
It repeatedly executes a block of code as long as a specified condition is **True.**
It is primarily used when the number of iterations(execution of logic) is not known beforehand and wanted to execute until specific condition is met.

While boolean:
{   Logic/block of code

for loop

A **for loop** in Python is a control flow statement used to **iterate over a sequence** (e.g., a list, tuple, string, set, dictionary, or range) and execute a block of code for each element in the sequence.

```
for i in range(10):
    print(i)
```

$-8 \quad -7 \quad -6 \quad -5 \quad -4 \quad -3 \quad -2 \quad -1 \longrightarrow$

$$x = [1, 9, 10, 14, -3, \text{"data"}, 3.2, (1, 2)]$$

$$0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7$$

Ex :-

for \<v\> in \<iterables\> :

$\equiv$

Accessing Elements in list :-

①   print (x[0]) #1

     print (x[4]) # -3

$$x = [\text{"data"}, 4, True, 3.2, (1, 2)]$$

② for i in x :

     {print(i)

o/p :- "data"
     4
     True
     3.2
     (1, 2)

break :-

```
                        i
x = [1,2,3,4,5,6,7,8,9,10]

for i in x:
    if i == 5: ✗ ✗ ✗ ✗ ✓
        (break)

    else
        print(i)
```

1
2
3
4

Ex:-

Personal Information

(name) email bra salu phone   vishnu

x

1,00,000 rows

50,000   vishnu vadlan ECE Salem phone

Series object [-, -, -0, (-, -)]

0000

time saved   Table

```
for i in x.name :
    if i == "vishnu" :
        print fetch all his detail.

        break.
```

→

Continue :-
```
            ;  ;  i  i
x = [1,2,3,4,5,6,7,8,9,10]
```

$$x = [1, 2, 3, 4, (5), 6, 7, 8, 9, 10]$$

```
for i in x:
    if i == 5:
        {continue}
    else:
        print(i)
```

```
# 1
# 2
# 3
# 4
```

Programmer

```
i = ECE
i = EEE

i = CSE

i = ECE
```

1,00,000

name,	branch,	year,	phone	gmail
	ECE			
	EEE			
	CSC			
	ECE			
	IT			
	Mech			

objective :- generate a pass for the upcoming fest and send to their gmail ids
except ECE branch student

```
for i in x.branch:
    if i == "ECE":
        continue
    else:
        ≡  → to generate a pass
              and trigger the pass
              to their gmail ids
```

Pass :-

```
for i in x:
    pass
```

```
for i in x:
    pass
```

else