Iterative_Control(Loop)

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Agenda

- Iterative Control and Its types.
- Break
- Continue
- Pass

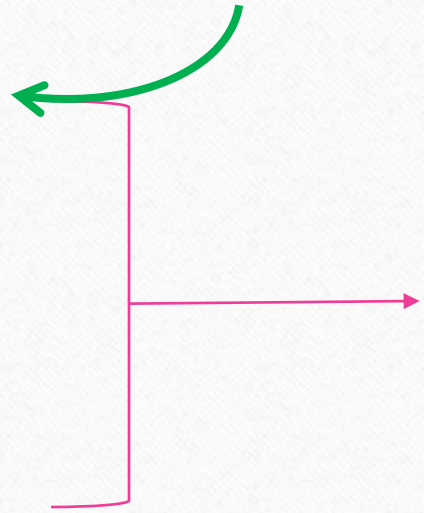
Iterative Control & Its types

- Iteration control allow us to execute a block of code repeatedly as long as the condition is true.
- Loops statements are used when we need to run same code again and again.
- In Python iterative control are two types : -
  - while (loop)
  - for (loop)
- In Python not available do while loop

while Loop

- while is a keyword.

```
while condition :
    code
    code
    code
    _______
```



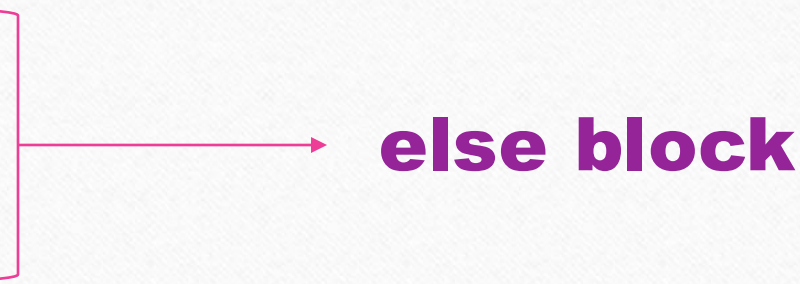
while loop block

break

- **break is a keyword.**
- **Use of break only for only in loop.**

while else Loop

```
while condition :
    code
    code
    _______
else :
    code
    code
    _______
```



for Loop

- for is a keyword.
- for loop only works on iterable.

Keyword

Operator

Syntax :- for variableName in iterable :

code

code

What is iterable object

- **Iterable object** वह **object** है जिसमें **multiple values** होता हो.
- **It is like a container for several element.**

'ANTiCoder', 'Coder'
'TasiNCoder', 'Tasin'

Iterable object

- **Iterable object Ex :-** str, range, tuple, bytes, set, dict, bytearray, frozenset

Group of values 👇

- **group of variable iterable object** होता है जरुरी नहीं हैं की हर ऐसा **object iterable object** हो.
- **Iterable** होने का अर्थ ये है की उसके हर **element** को **1 by 1** करके **access** कर पते हैं वह **object iterable object** है.

for loop VS while loop

While :-

- Use while loop when we have the condition.
- Use of while loop need a condition.
- Condition is True run while loop block.

For :-

- for loop work only iterable.
- No need of Condition in for loop.
- Iterable के first element से last element को access किया जाता है

for else Loop

Keyword

Operator

Syntax :- for variableName in iterable :

```
        code
        code
        -------
else :
        code
        --------
```

continue

- **continue is a keyword.**
- **Use of continue only for only in loop.**

pass

- pass is a Keyword.
- We are create a Empty block is possible with the help pass keyword.

```
for Item in "ANTiCoder":
    pass
```