

# 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**



The diagram illustrates the syntax of a while loop. It shows the keyword 'while' followed by a 'condition' and a colon. Below this, a block of code is shown, with the first line being 'code' and the subsequent lines being 'code', 'code', and an ellipsis '.....'. A green curved arrow points from the word 'condition' to the first line of code. A pink bracket groups the code lines, and a pink arrow points from the right side of the bracket to the text 'while loop block'.

# break

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



# while else Loop

**while condition :**

**code**

**code**

.....

**while loop block**



**else :**

**code**

**code**

.....

**else block**



# for Loop

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

**Syntax :-**      **for**      **variableName**      **in**      **iterable :**

**code**

**code**

**.....**

**Keyword**      **Operator**

# What is iterable object

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

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

'ANTiCoder', 'Coder'  
'TasiNCoder', 'Tasin'  
**Iterable object**

## Group of values

- **group of variable iterable object** होता है जरूरी 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

Operator

Keyword

**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
```