

Day-07

Date - 11/09/2025

## - Loops -

- Used to repeat a block of code repeatedly until a certain condition is met
- helps to avoid writing the same code again and again

## - Types of loops in python

(1) for loop: repeats code a fixed number of times

Ex: for i in range(5):

print("Hello", i)

(2) while loop: Repeats code as long as a condition is True

Ex: count = 0

while count < 5:

print("Hi", count)

count += 1

(3) nested loop :

- for loop inside for loop
- for loop inside while loop
- while loop inside for loop
- while loop inside while loop

(1) for loop

- Two types :

1. for loop with sequence

Syntax: ~~for~~ Variable in Sequence:  
Statement

Ex: colours = ['red', 'black']

for i in colours:

print(i)

o/p → red

black

2. for in range

- range (start value, stop value, step size)

- we have default start value 0

Step size is 1

- range (1, 11, 1) → range (i=1; i<11, i+1)

Ex: for i in range (0, 5, 1):

print (i)

o/p → 0

1

2

3

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