

- *loops: in the python are used to execute a block of code repeatedly until certain condition is met,
- python mainly provide 2 loop
- 1)for loop
- 2)while loop
- 3)nested loop
 - *for loop inside for loop
 - * for loop inside while loop
 - *while loop inside while loop
 - *while loop inside for loop

- 1)for loop
- for loop with sequence:
- syntax
- for variable in sequence
- statements
- string, list, tuples, set, dict ,
- sub="python"
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- 2)for loop with range() function
- for variable in range():
- statements

- Range
- there are 2 standard words r in python in loops also
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- 1)intalation(start value)
- 2)condition(stop value)less than one value
- 3)incrementation/decrement ion(steps size) +
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- *we have default start value is 0
- default step value is 1
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- range(1,11,1)
- (i=1;i<11,i+1)
- i=1,2,3,4,5 ,6,7,8,9,10
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- range(1,10,1)
- (i=1;i<10,i+1)
- i=1,2,3,4,5 ,6,7,8,9

- 1. for loop → used to iterate over sequences (string, list, tuple, set, dict) or a range of numbers.
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- 2. while loop → used when we don't know the exact number of iterations and continue until a condition becomes false.
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- Nested loops allow placing one loop inside another (for–for, for–while, while–while, while–for).
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- The range() function is commonly used with for loops.
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- Range(start, stop, step)
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- Default values: start = 0, step = 1
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- Example: range(1, 11, 1) → generates numbers 1 to 10.