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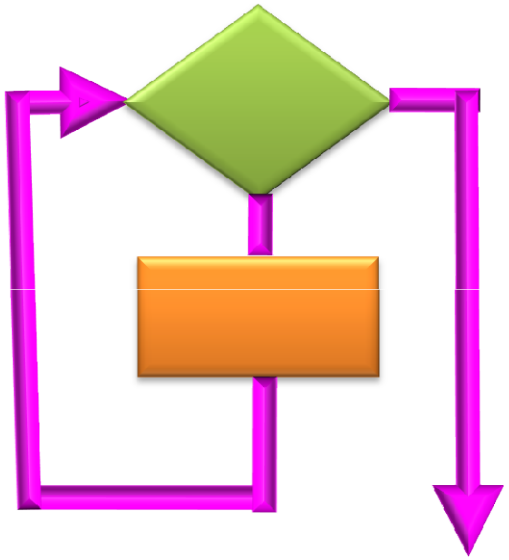
Python Programming



Loop

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Contents

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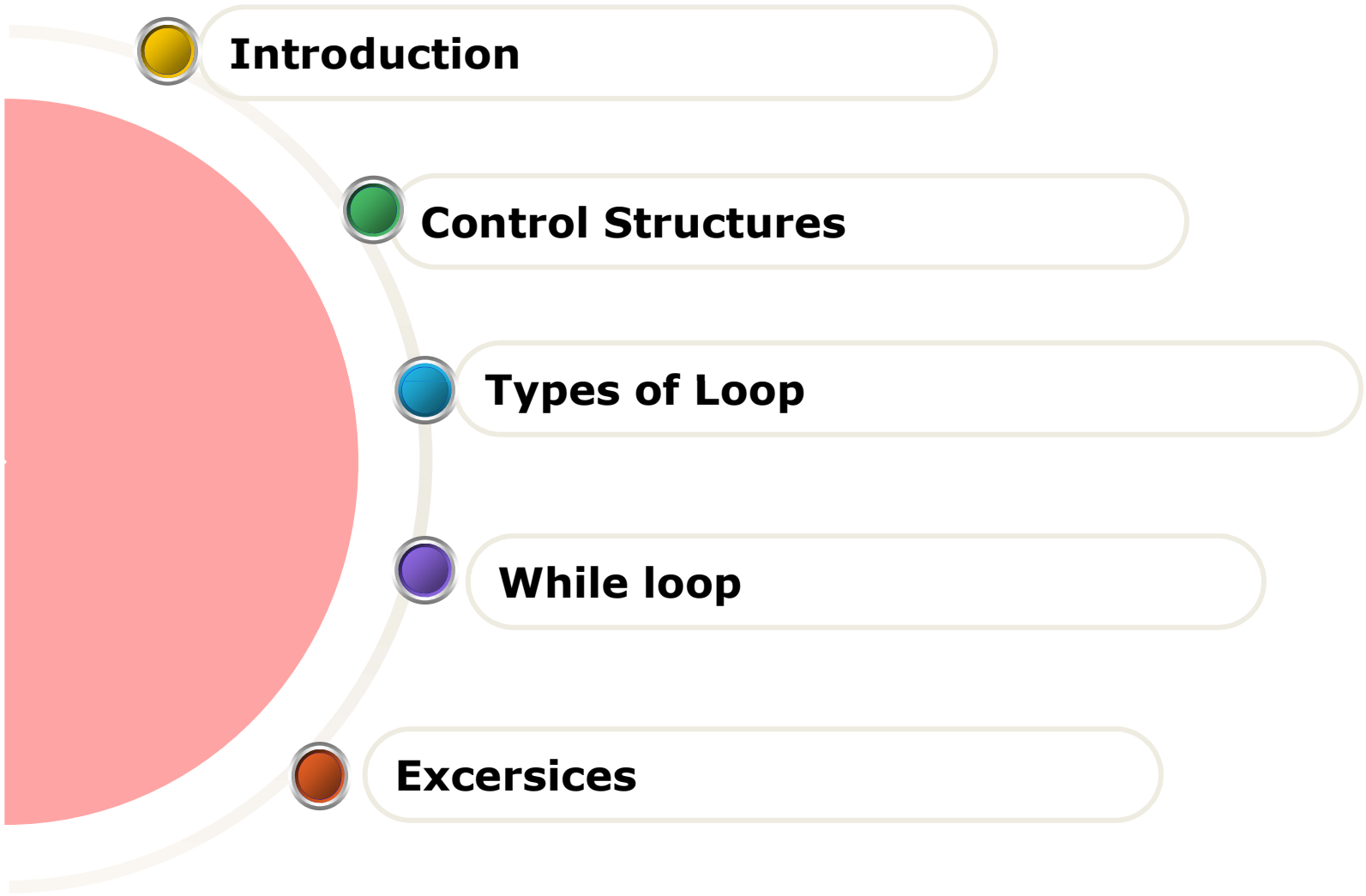

Control Structures

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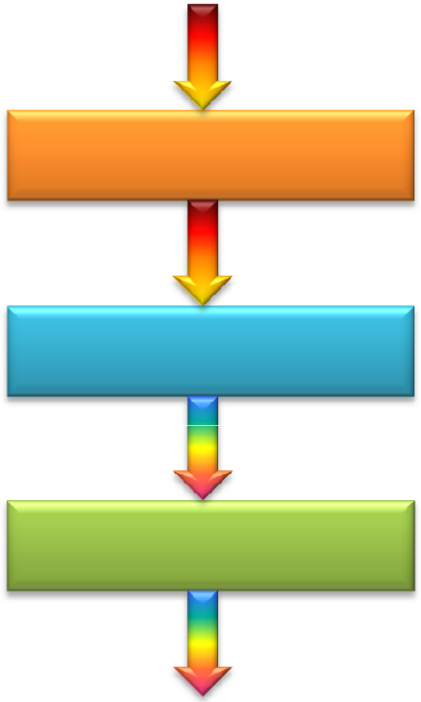
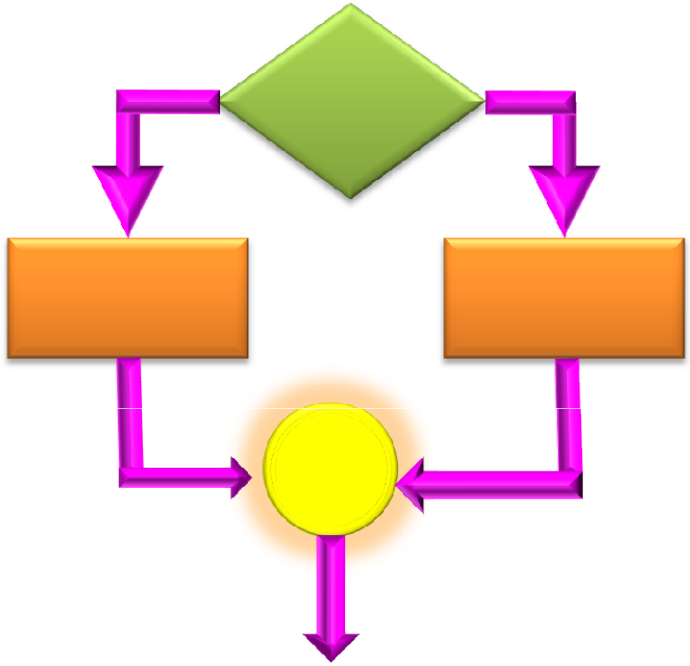
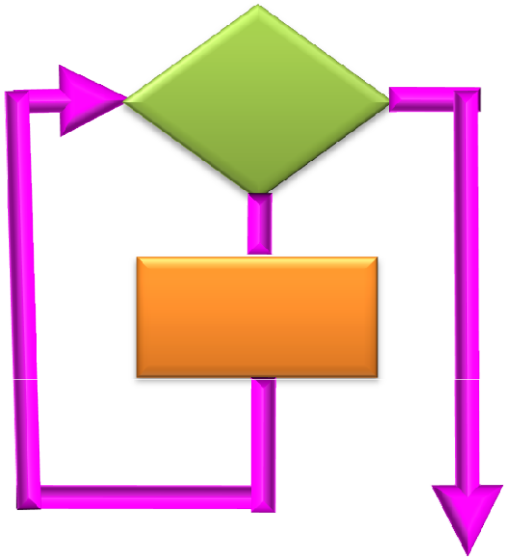


SEQUENCE



SELECTION



ITERATION

ITERATION OR LOOPING

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What is loop or iteration?

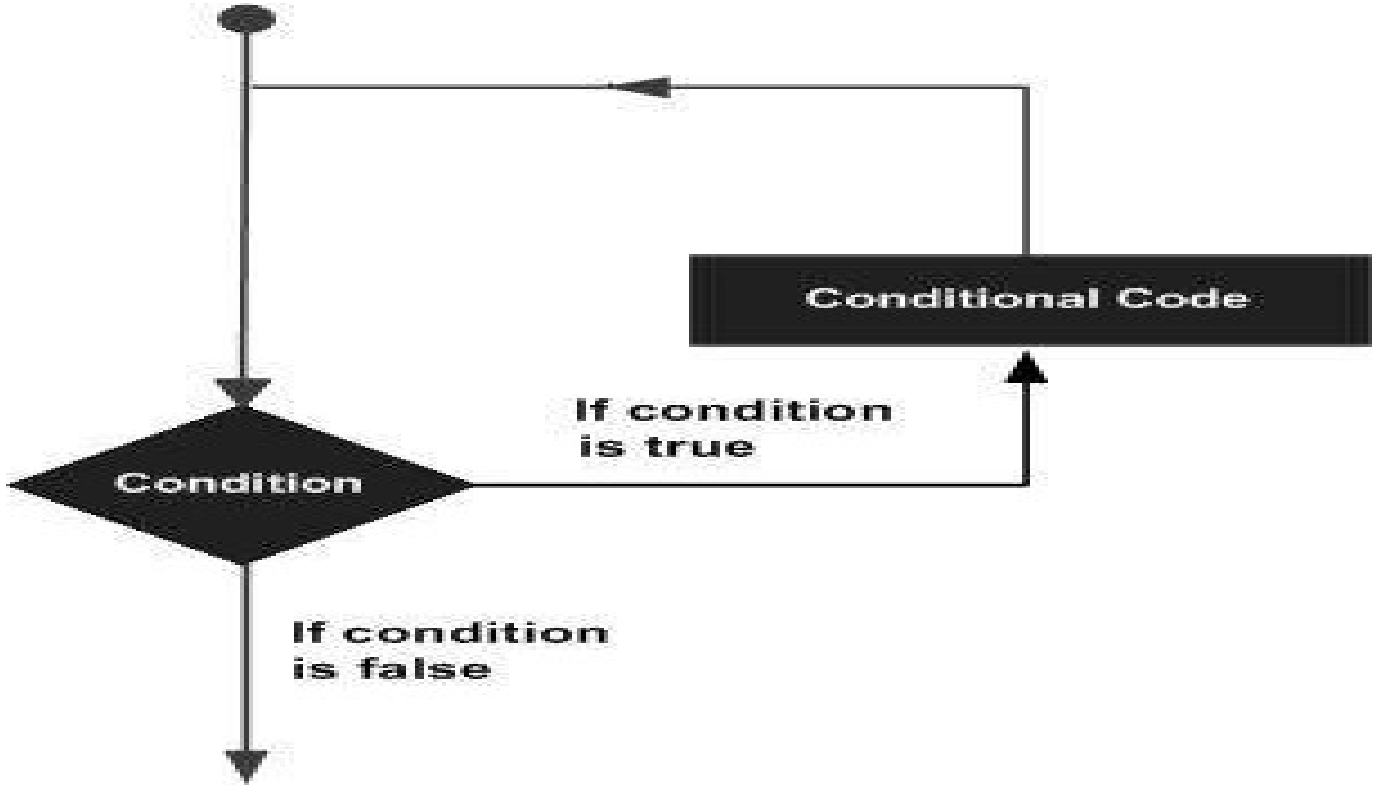
Loops can execute a block of code number of times until a certain condition is met.

OR

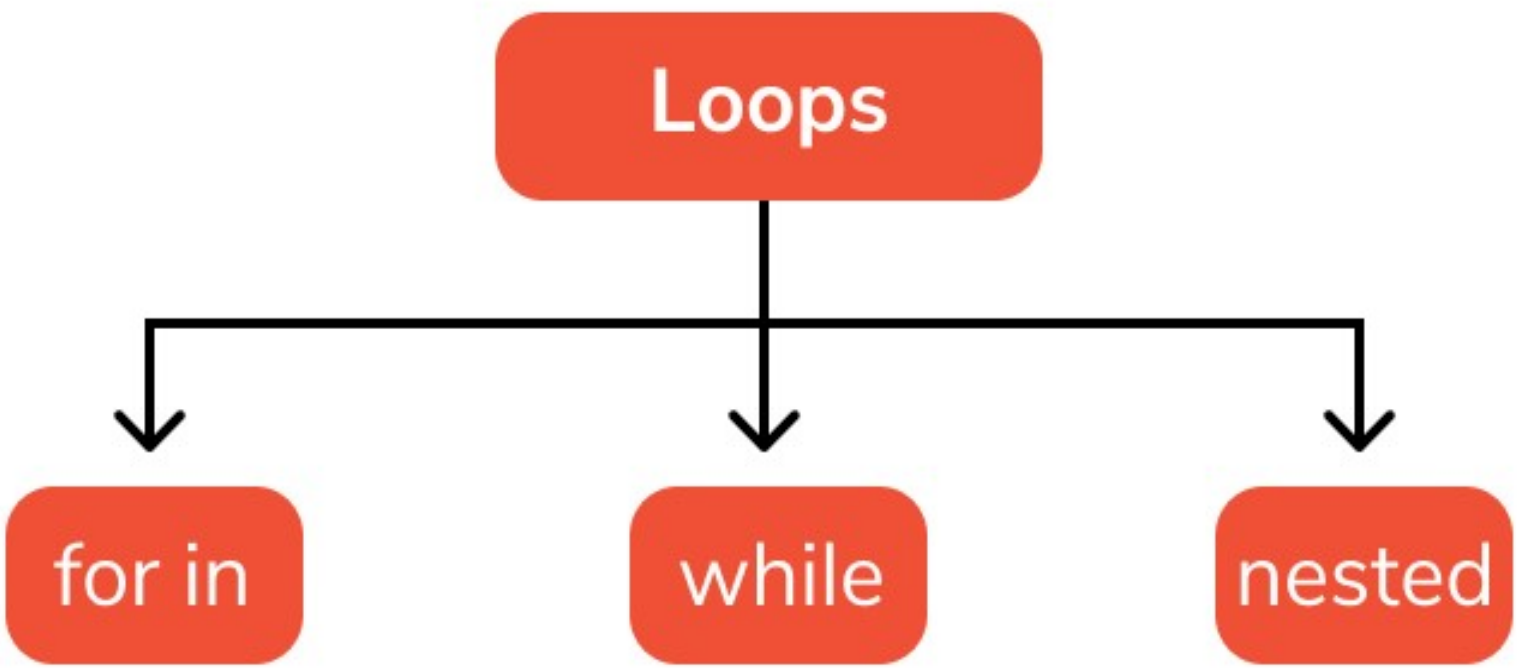
The iteration statement allows instructions to be executed until a certain condition is to be fulfilled.

The iteration statements are also called as loops or Looping statements.

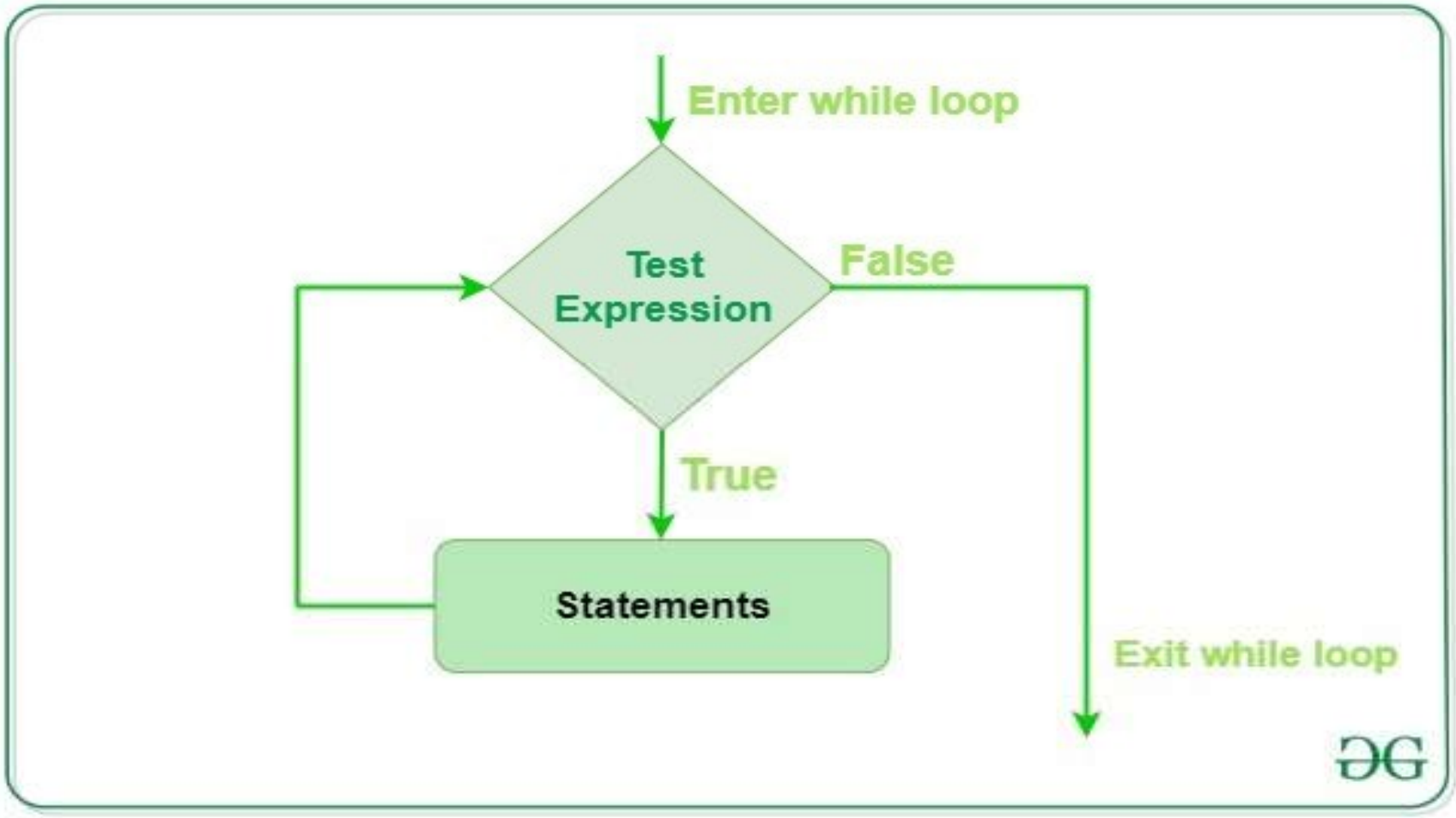
- A loop statement allows us to execute a statement or group of statements multiple times.



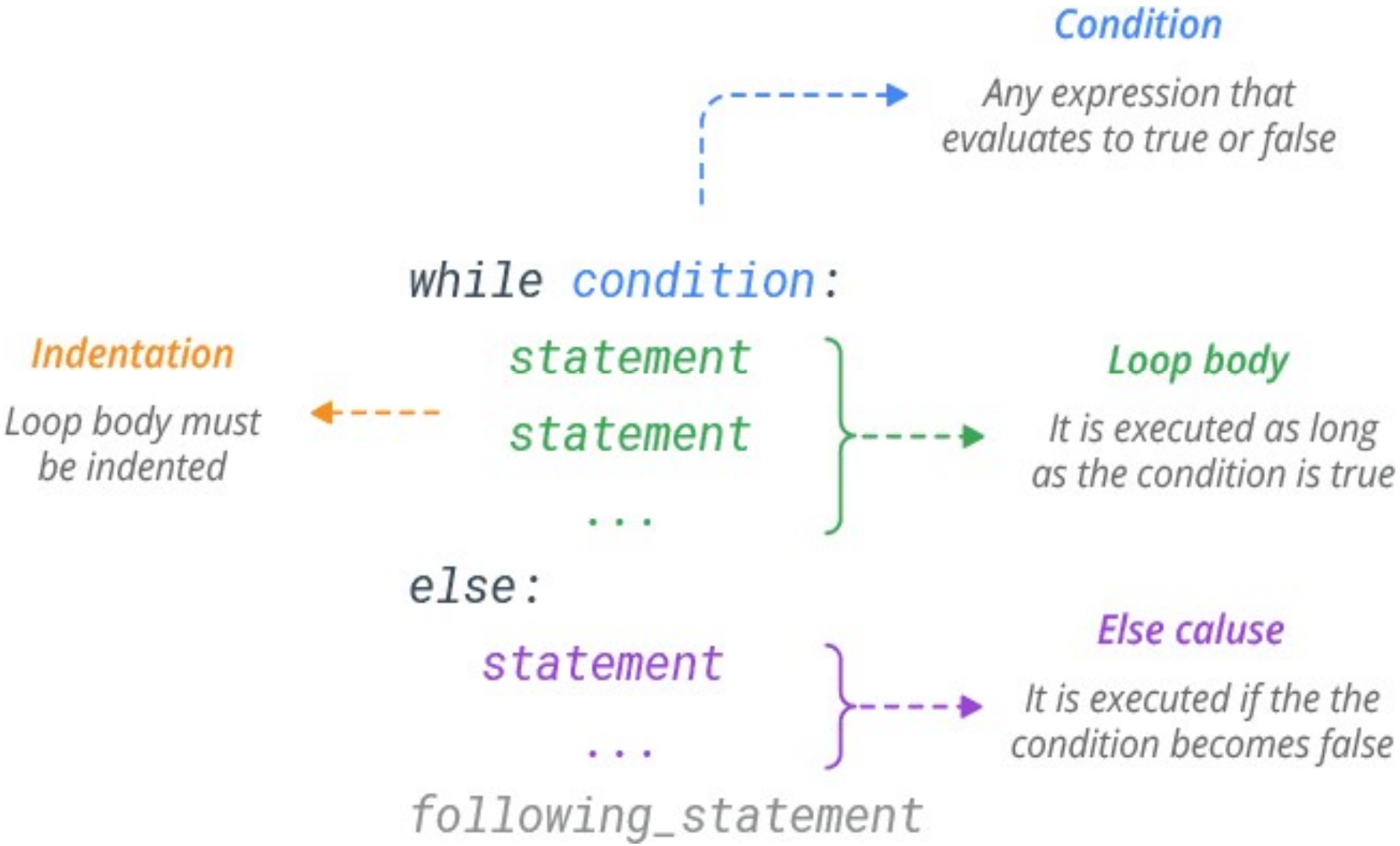
Types of Loop



While loop


Enter while loop
Test Expression
False
True
Statements
Exit while loop

While loop


Condition
Any expression that evaluates to true or false
while condition:
statement
statement
...
Indentation
Loop body must be indented
Loop body
It is executed as long as the condition is true
else:
statement
...
Else caluse
It is executed if the the condition becomes false
following_statement

Flow Control - while loop

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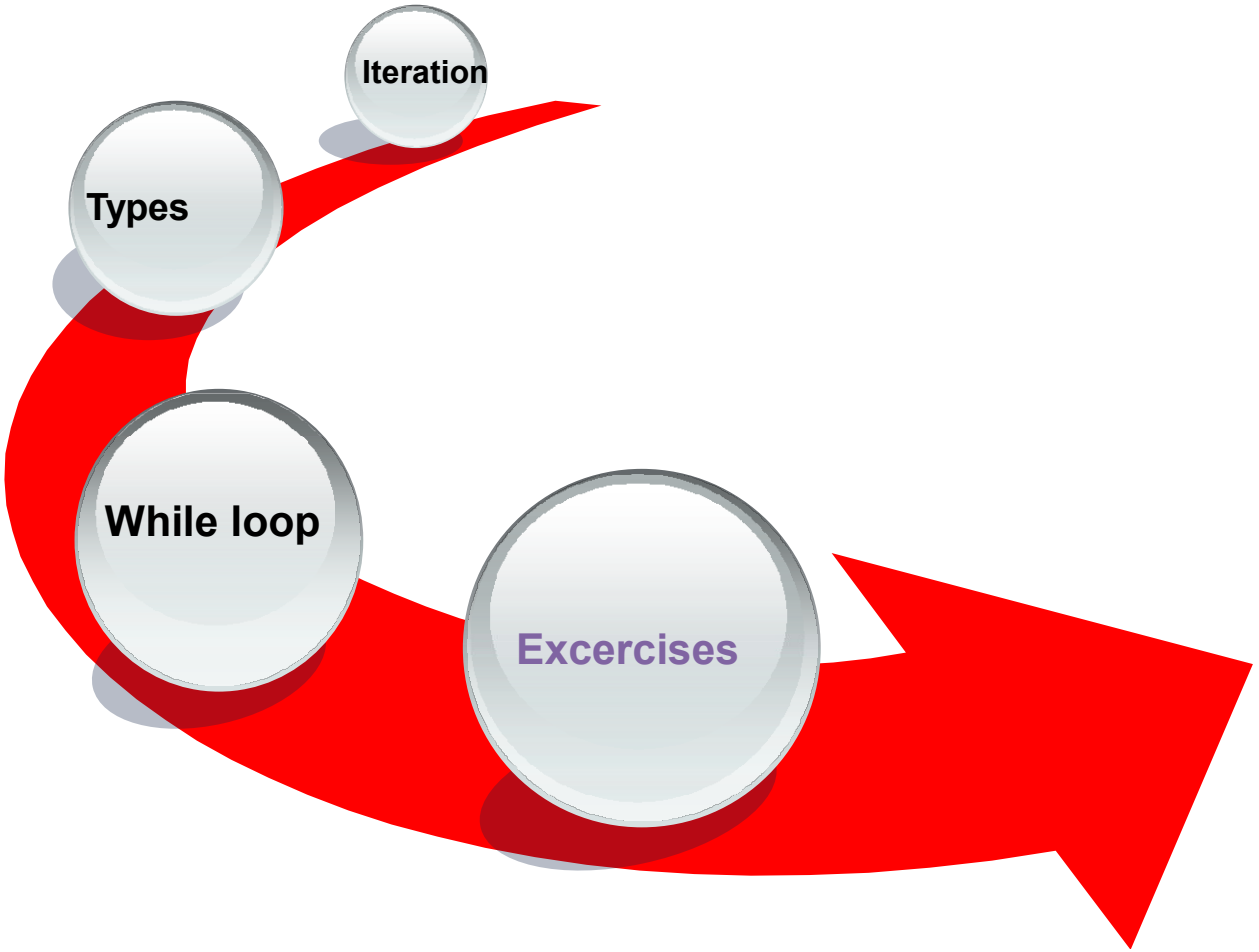
- Repeat statements again and again
- Structure
  - while keyword followed by a boolean expression
  - followed by a colon
  - followed by an indented block of code on next line

- "while" loops work as follows:
  - Evaluate a Boolean expression.
  - If it is False, skip the block of statements associated with the while loop and condition the program as normal
  - If it is True n Execute a series of statements.
  - At the end of the statement block re-evaluate the condition
  - If it is True, repeat the block of statements
  - If it is False, skip the block of statements associated with the while loop and continue the program as normal

Summery



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Thank You !