### Today I'll Cover:

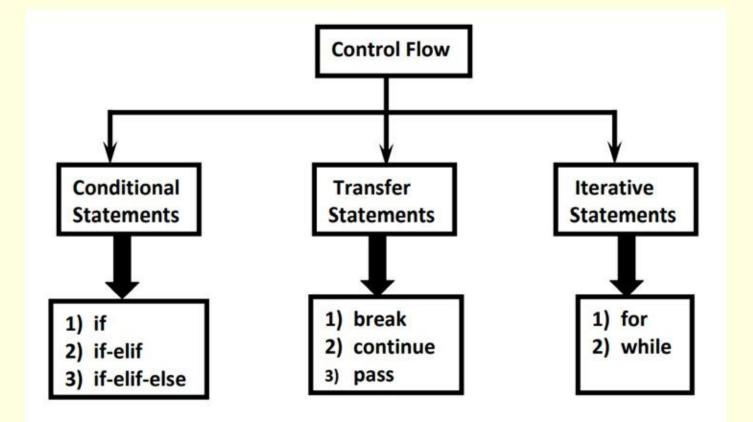
- 1. Flow Control
- 2. Conditional Statements
- 3. Iterative Statements
- 4. Transfer Statements



In the name of ALLAH, the Most Beneficent, the Most Merciful

#### Flow Control

Flow control describes the order in which statements will be executed at runtime.



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## Conditional Statements (if)

Syntax (one line approach for single line):

if condtions : statement

Syntax (one line approach for Multiple line):

if conditons : statement1; statement

Syntax (Multiple line approach):

if conditions:

statements

If condition is true then statement will be executed

#### Syntax (if-else):

if conditions:

action1

else:

action2

if condition is true then action1 will be executed otherwise action2 will be executed

# Syntax (if-elif-else): if conditions1: action1 elif condition2: action2 else:

Based condition the corresponding action will be executed.

Note: else is always optional.

default action

#### Iterative Statement

If we want to execute a group of statements multiple times then we should go for Iterative statements.

Python supports 2 types of iterative statements.

- 1. for loop
- 2. while loop

### For Loop

To execute some action for every element present sequence then we should go for 'for' loop.

```
Syntax:
```

```
for x in sequence :
statements
```

# While Loop

To execute a group of statements iteratively until some condition false, then we should go for while loop.

#### Syntax:

while condition : statements

# Infinite Loop

A loop which keeps executing forever known as Infinite loop.

## Nested Loop

A loop inside another loop is nothing but a nested loop.

#### Transfer Statement

- 1. break: We can use break statement inside loops to break loop execution based on some condition.
- 2.continue: We can use continue statement to skip current iteration and continue next iteration.

3. pass: In our programming syntactically if block is required which won't do anything then we can define that empty block with pass keyword.

#### pass

- It is an empty statement
- It is null statement
- It won't do anything

# Loop with else block

 Inside loop execution, if break statement not executed, then only else part will be executed.

else means loop without break