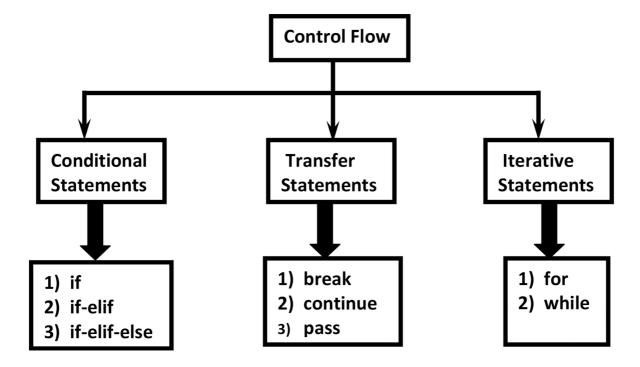
Flow Control

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



I. Conditional Statements

1) <u>if</u>

if condition: statement

or

if condition:

statement-1

statement-2

statement-3

If condition is true then statements will be executed.

2) <u>if-else:</u>

if condition :
Action-1
else :

Action-2

if condition is true then Action-1 will be executed otherwise Action-2 will be executed.

3) if-elif-else:

Syntax:

if condition1:
 Action-1
elif condition2:
 Action-2
elif condition3:
 Action-3
elif condition4:
 Action-4
...
else:
 Default Action

II. <u>Iterative Statements</u>

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

1) for loop:

If we want to execute some action for every element present in some sequence(it may be string or collection)then we should go for for loop.

Syntax:

for x in sequence : body

2) while loop:

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

Syntax:

```
while condition : body
```

Nested Loops:

Sometimes we can take a loop inside another loop, which are also known as nested loops.

Eg:

```
1) for i in range(4):
2) for j in range(4):
3) print("i=",i," j=",j)
4)
```

III. Transfer Statements

1) <u>break:</u>

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.

loops with else block:

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

else means loop without break

LET'S PY by shakti Jaiswal

3) pass statement:

pass is a keyword in Python.

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

del statement:

del is a keyword in Python.

After using a variable, it is highly recommended to delete that variable if it is no longer required, so that the corresponding object is eligible for Garbage Collection. We can delete variable by using del keyword.