

# Python Notes

## Control Structures

- A program's control flow is the order in which the program's code executes
- The Control structure of a Python Program is regulated by conditional statements, loops.
- Python has three types of Control structures:-
  - Sequential → default mode
  - Selection → used for decisions and branching.
  - Repetition → used for looping.

### 1. Sequential

Sequential statements are a set of statements whose execution process happens in a sequence.

```
# This is a sequential statement
a = 50
b = 10
c = a + b
print("addition is :", c)
```

## 2. Selection / Decision control statements

- In Python, the selection statements are known as Decision control statements.

Some (Decision Control Statement) are :-

- Simple if.
- if-else
- elif
- Shorthand if Statement
- Shorthand if else statement

## 3. Repetition

- A repetition statement is used to group (block) of programming instructions

- In Python, we generally have two loops / repetitive statement :-

(Python Loops)

- for loop
- while loop
- 3- Nested loop -

## \* Control Statements :-

continue statement

break statement

pass statement.