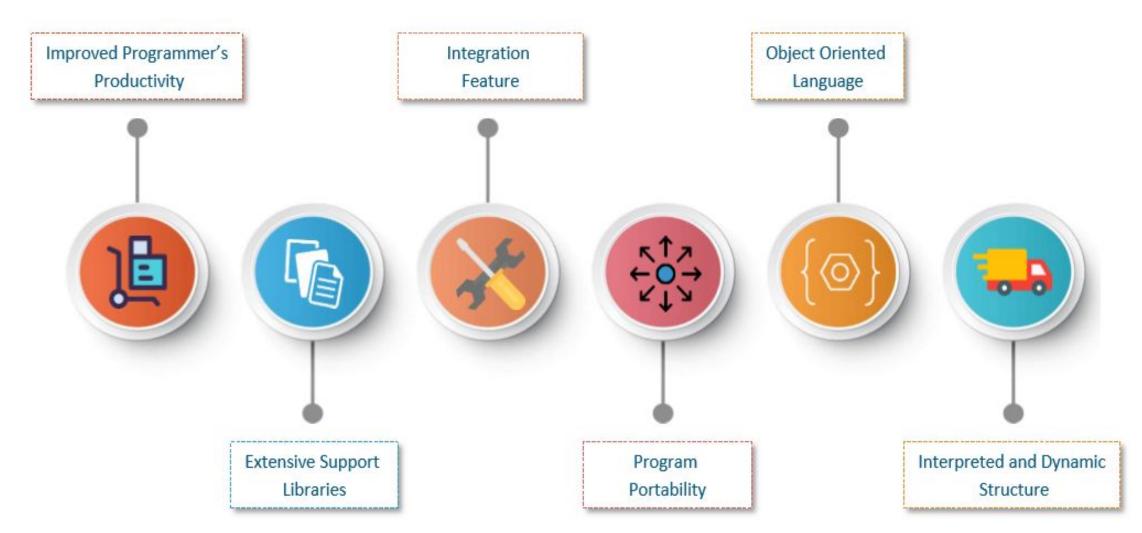
Python Tutorial

- Why Python?
- Python Installation
- Data Types / Objects
- Operators
- Flow Control
- Function in Python
- Data Visualization
- Data Science Library

Why Python?



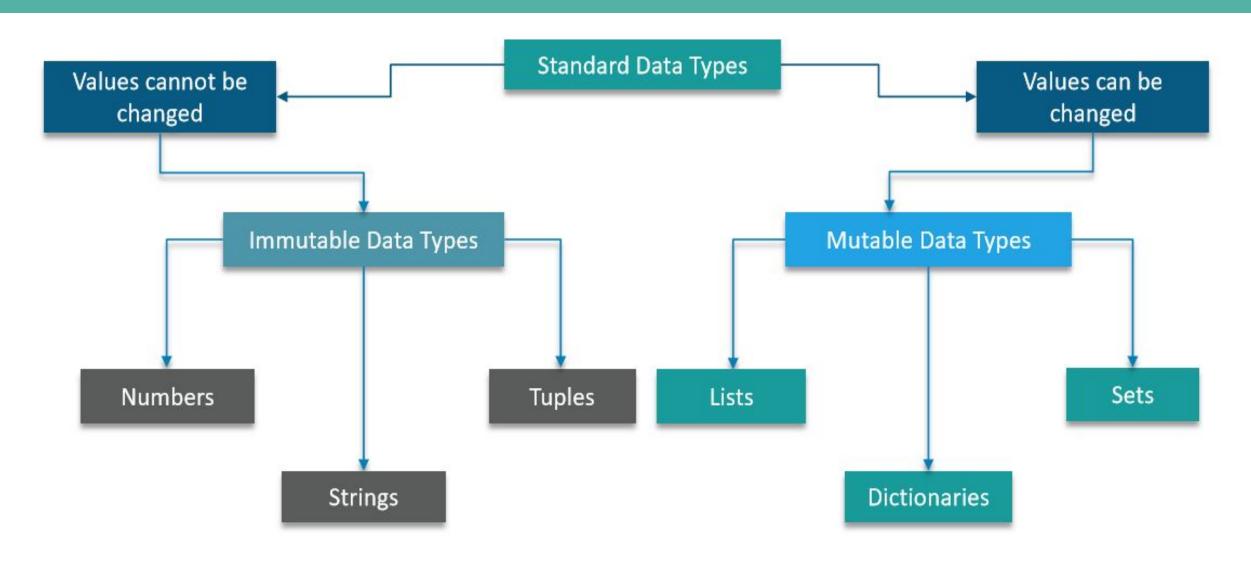
Installation Guide

Download and Install Anaconda from below Link



https://www.anaconda.com/distribution/

Data Types / Objects



Data Objects

Numbers

Different types of numerical values.

A = 10

B = 56.23

String

Strings are nothing but anything enclosed in quotes Str = "Hello"

Tuples

A sequence of immutable python objects tup = ("Hello", "Python")

Data Objects

List

List is the most versatile datatype available in Python, which can be written as a list of comma-separated values (items) between square brackets. list=["Maketing","Sales",8,11]

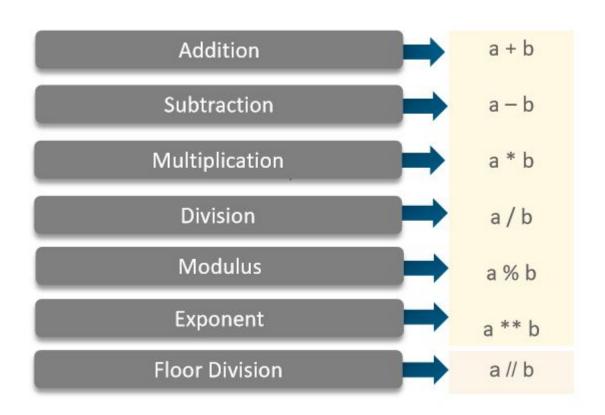
Dictionaries

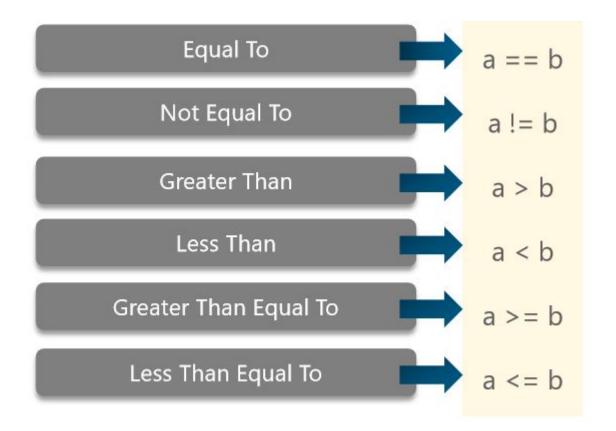
Dictionary is an unordered collection of key-value pairs. It is generally used when we have a huge amount of data dict={1:"Python"}

Sets

Set is an unordered collection of unique items. Set is defined by values separated by comma inside braces { }
Out = {1,2,3,3,1,2,1,3,1}

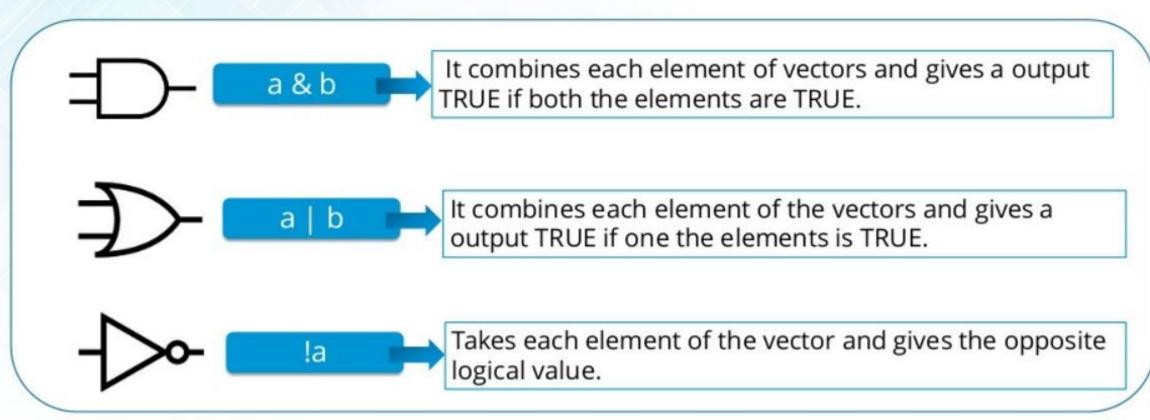
Operators



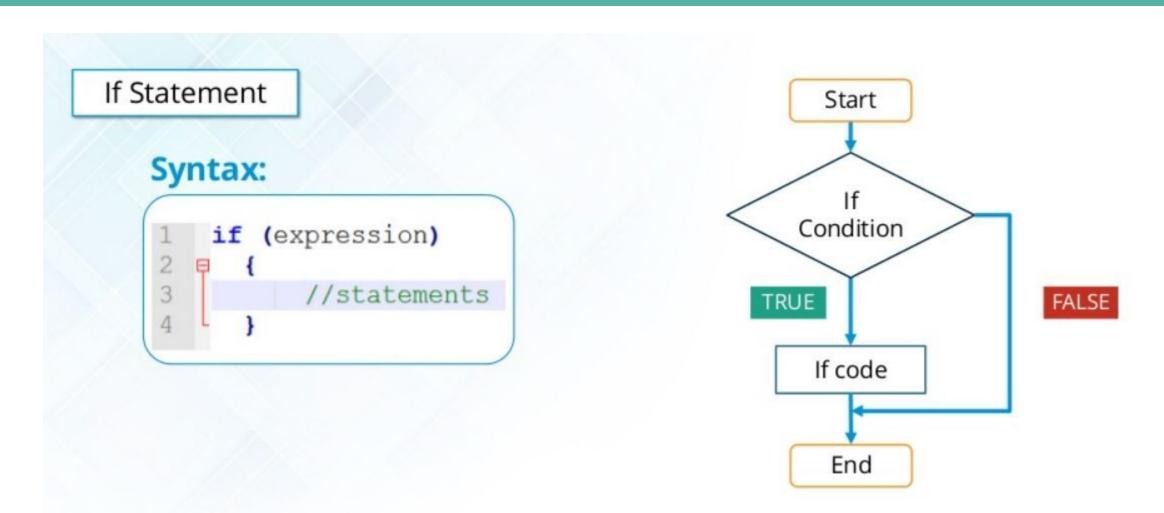


Operators

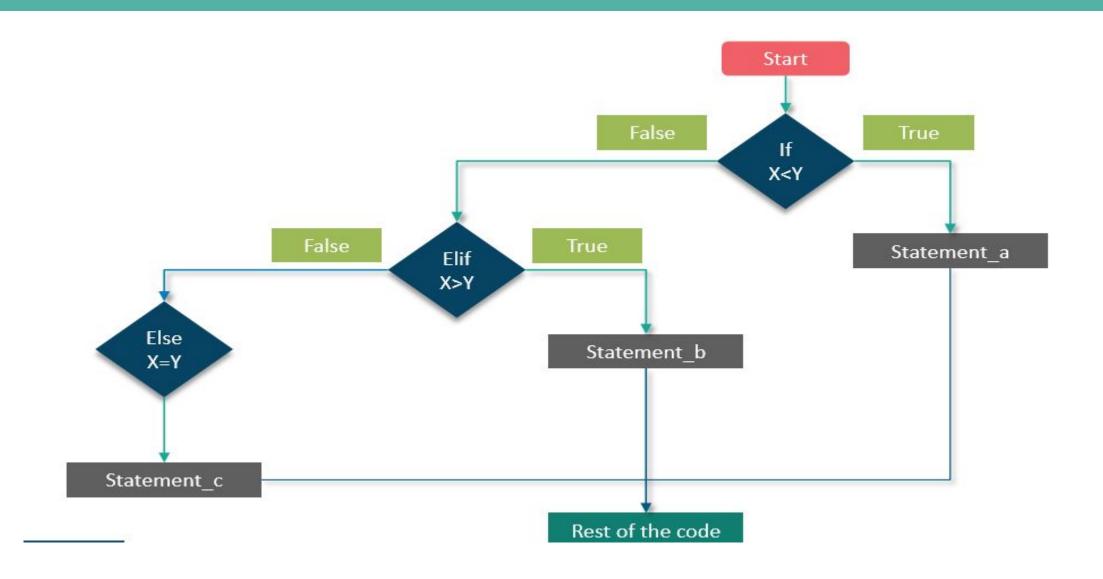
There are three types of logical operators: AND, NOT, OR



Flow Control - Conditional



Flow Control - Conditional

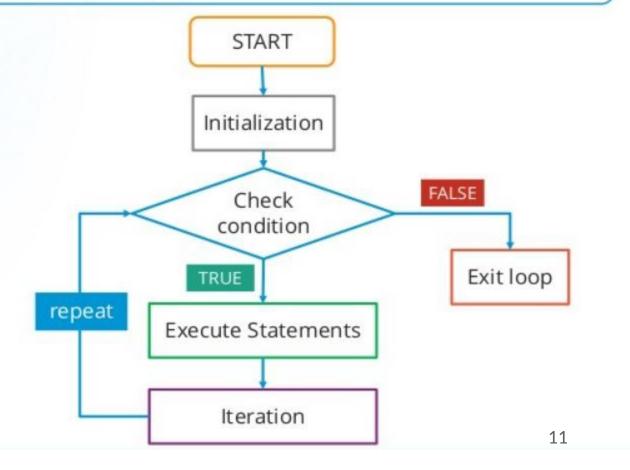


Flow Control - Loop

for Loop

Repeats a statement or group of for a fixed number of times. It tests the condition before executing the loop body.

```
for <variable> in <range>:
    stmt1
    stmt2
    ...
    stmtn
```



Flow Control - Loop

while Loop

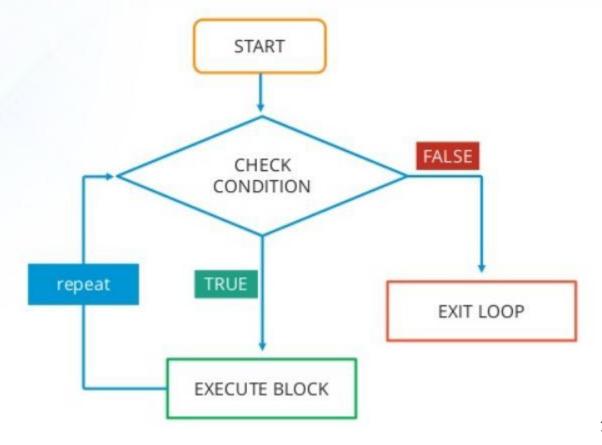
Repeats a statement or group of statements while a given condition is TRUE. It tests the condition before executing the loop body.

Syntax:

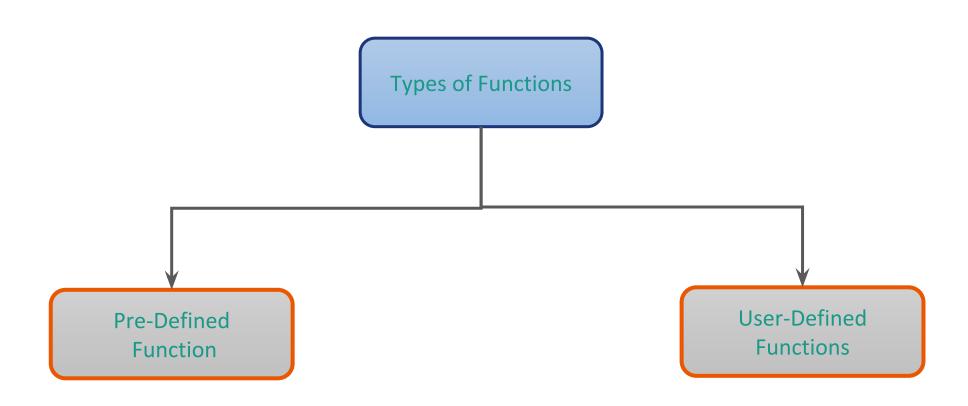
1

while expression:

statements



Functions in Python



Data Visualization

> Data Visualization helps the organizations unleash the power of their most valuable assets: their data and their people. Data Visualization Pie Chart Histogram Scatterplot **Boxplot** Bar Chart Line Graph

Thank You