



# Java By Kiran

## Python Syllabus

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Introduction | Data Types | Functions | Modules & Packages | Exception Handling | Program Flow Control | File Operation | String | List & Dictionary Manipulations | Regular Expression | Python OOPS | Database Interaction | Multithreading | Contacting User Through Emails | Project

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## Introduction To Python

- Installation and Working with Python
- Understanding Python variables
- Python basic Operators
- Understanding python blocks

## Python Data Types

- Declaring and using Numeric data types: int, float, complex
- Using string data type and string operations
- Defining list and list slicing
- Use of Tuple data type

## Python Exception Handling

- Avoiding code break using exception handling
- Safe guarding file operation using exception handling
- Handling and helping developer with error code
- Programming using Exception handling

## Python Program Flow Control

- Conditional blocks using if, else and elif
- Simple for loops in python
- For loop using ranges, string, list and dictionaries
- Use of while loops in python
- Loop manipulation using pass, continue, break and else
- Programming using Python conditional and loops block

## Python Functions , Modules And Packages

- Organizing python codes using functions
- Organizing python projects into modules
- Importing own module as well as external modules
- Understanding Packages
- Powerful Lamda function in python
- Programming using functions,modules & external packages

## Python File Operation

- Reading config files in python
- Writing log files in python
- Understanding read functions, read(), readline() and readlines()
- Understanding write functions, write() and writelines()

**Manipulating file pointer using seek  
Programming using file operations**

## **Python Object Oriented Programming – Oops**

**Concept of class, object and instances  
Constructor, class attributes and destructors  
Real time use of class in live projects  
Inheritance , overlapping and overloading  
operators Adding and retrieving dynamic attributes  
of classes Programming using Oops support**

## **Python String , List & Dictionary Manipulations**

**Building blocks of python programs  
Understanding string in build methods  
List manipulation using in build  
methods Dictionary manipulation  
Programming using string, list and dictionary in build functions**

## **Python Regular Expression**

**Match ()  
Search ()  
Findall ()  
Greedy and Non-Greedy Matching**

## **Python Database Interaction**

**SQL Database connection using  
python Creating and searching tables  
Reading and storing config information on  
database Programming using database connections**

## **Machine Learning**

**Machine learning: the python Setting  
Loading an example dataset  
Learning and Predicting  
Linear regression  
Decision tree implementation**

## Contacting User Through Emails Using Python

Installing smtp python  
module Sending email

Reading from file and sending emails to all users addressing them directly for marketing

## Data analysis

- NumPy Intro  
Arrays , Datatypes  
Matrices  
Broadcasting
- Pandas Intro  
Series  
Data Frames  
Merge,join,Concatenate  
Handling missing data  
IO Tools,Text,CSV,HDF5  
JSON,EXCEL
- Plotting  
Matploting Intro  
Line Plot  
Bar Chars  
Histograms  
Scatter Plot