



Syllabus

Python Programing

- Live Sessions (6 Month)
- Daily Recording provide
- MSBTE Syllabus
- MSBTE Model Solutions
- Exact Question Bank
- Regular Notes
- 100% guaranty of coding
- Completion Certificate

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01.

INTRODUCTION TO PYTHON AND CONTROL FLOW STATEMENTS

- 1.1 Introduction: Features, History and Applications of Python, Python IDE's
- 1.2 Python building blocks: Indentation, Identifiers, Variable, Comments, Keywords
- 1.3 Basic input output operations: input(), print()
- 1.4 Operators: Arithmetic, Relational, Assignment, Logical, Bitwise, Membership and Identity operator
- 1.5 Control flow statements: Conditional statements(if, if-else, if-else if-else, nested if), Loops in python(while, for, nested loops), Loop manipulation statements (continue, pass, break, else)

02.

DATA STRUCTURES IN PYTHON

- 2.1 List:
 - a) Defining lists, accessing values from list, deleting list values, updating lists
 - b) Basic list operations c) Built-in list functions/methods
- 2.2 Tuple: a) Defining Tuple, accessing values from Tuple b) Basic Tuple operations c) Built in Tuple functions/methods
- 2.3 Set: a) Defining Sets, accessing values from set, deleting set values b) Basic set operations c) Built in set functions/methods
- 2.4 Dictionary: a) Defining Dictionary, accessing values from Dictionary, deleting Dictionary values, updating Dictionary b) Basic Dictionary operations c) Built in Dictionary functions/methods

03.

FUNCTIONS, MODULES AND PACKAGES IN PYTHON

- 3.1 Functions: Defining function, Calling function, Function arguments, Return statement, Scope of Variable, Lambda functions
- 3.2 Modules: Create user defined Module, Importing a module, Using python built-in modules, Namespace and scoping
- 3.3 Python Packages: Create user defined Package, Importing a Package, Using python built-in Packages, Installing packages using PIP

04.

OBJECT ORIENTED PROGRAMMING IN PYTHON

- 4.1 Object oriented Concepts: Creating class, Creating object
- 4.2 Constructors in python (Parameterized & Non-Parameterized), the self parameter
- 4.3 Polymorphism: Method Overloading and Overriding
- 4.4 Data Hiding / Abstraction
- 4.5 Inheritance: Single Inheritance, Multiple Inheritance, Multilevel Inheritance

05.

INTRODUCTION TO BUILT-IN PACKAGES IN PYTHON

- 5.1 Pandas: Use of pandas, pandas series, pandas Data Frames, pandas Read CSV
- 5.2 Creating GUI using tkinter: Introduction to tkinter, Widgets (Entry, Label, Button, Radio Button, Check button), Creating a simple GUI application
- 5.3 Connecting to Database using MySQL: Installing mysql-connector, cursor() object, execute() method, fetchall() method, Creating simple program to connect database