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| MEAN Stack |

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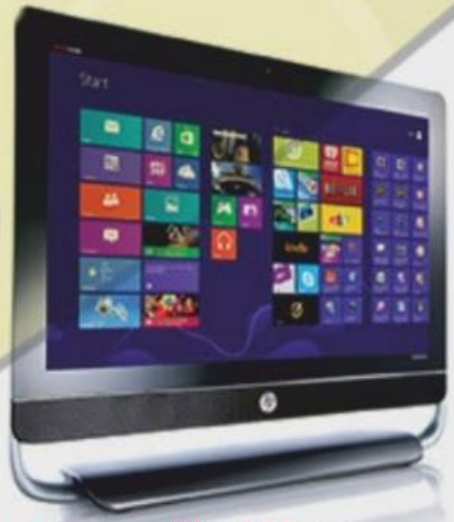

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इ. १० वी व १२ वी उत्तीर्ण, B.C.A., B.C.S., M.C.A., M.C.S., I.T., Comp. , E&TC आणि उर्वरित सर्व शाखा (Engg. & Diploma) तसेच आय.टी. क्षेत्रात करियर करु इच्छिणाऱ्यांसाठी.

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Python Training Program Proposal

- Pranit Thakur
Freelance corporate Trainer
(PRANVI Computech)
+91 9975772212

This program includes Core and Advance Python [40H]* and will follow through direct implementation of concepts from 'Contents' with interview related theoretical points.

At the end of program participants will get notes and practical examples in soft form covered during the same.

Contents

A. Core Python

1. Introduction
2. History
3. Environmental Setup
4. Working with IDLE
5. Variables
6. Operators
    a. Arithmetic operators
    b. Relational operators
    c. Logical operators
    d. Membership operators
    e. Bitwise operators
    f. Assignment operators
7. Datatypes and type conversion
    a. None
    b. Number
        i. int
        ii. float
        iii. complex
        iv. bool
    c. List
    d. Tuple
    e. Set
    f. String
    g. Range
    h. Dictionary
8. Functions
    a. Types of functions
    b. Type of arguments to functions

9. Working with PyCharm
10. User input
11. Control Statements
    a. Decision Control
        i. Simple if
        ii. if – else
        iii. if – elif – else
        iv. Nested if
    b. Looping Control
        i. 'for' loop
        ii. 'while' loop
        iii. Nested loops
    c. Jump Control
        i. break
        ii. continue
        iii. pass
        iv. return
    d. Exception Control

B. Advanced Python

12. Object oriented concepts
13. Classes and objects
    a. Accessing static and dynamic members
    b. Constructors
    c. Access Modifiers
14. Encapsulation
15. Inheritance
    a. Single inheritance
    b. Multilevel inheritance
    c. Multiple inheritance
    d. Hierarchical inheritance
    e. Hybrid inheritance
    f. 'super'
16. Polymorphism
    a. Compile time polymorphism
    b. Run time polymorphism
17. Exception Handling
    a. Handling the exception
    b. Handling the known exception
    c. Handling the unknown exception
    d. try block
    e. except block
    f. finally block
    g. raise block
18. Modules
    a. Pre-defined modules

    b. User-defined modules
    c. Accessing modules
19. Multithreading
    a. Multitasking
    b. Multithreading
    c. Single Threaded Applications
    d. Multi Threaded Applications
    e. Thread lifecycle
    f. Sleeping thread
    g. Calling multiple threads
    h. Naming multiple threads
    i. join method
    j. Synchronization
    k. Acquiring lock
    l. Releasing lock
20. Lambda Expressions
21. Inner Classes
    a. Setting dependencies
    b. Avoid collisions
    c. Local inner classes
22. GUI
    a. tkinter module
    b. Components/ Widgets
    c. Layout
23. Database connectivity
    a. Need of permanent storage
    b. Ways of storing data permanently
    c. DBMS
    d. Types of Databases
    e. Types of SQL queries
    f. Installation of Mysql
    g. SQL DDL and DML queries
    h. Python functions for connecting Mysql
    i. Static queries
    j. Dynamic Queries
24. Regular Expressions
    a. What is regular expression
    b. The re module
    c. Functions from re module
    d. Pattern matching in string
    e. Pattern searching string
    f. Pattern finding in string
    g. Email extractions from string
    h. Date extraction from string
25. Numpy
    a. Introduction

b. Python package installer
c. Installation of third party module
d. Constructing arrays from collections
e. Properties of arrays
    i. Size
    ii. Dimension
    iii. Shape
    iv. Type of data
f. Slicing with arrays
g. Constructing user defined n – d arrays

26. Command line Arguments
    a. Executing program from command line
    b. sys module
    c. argv object
    d. format of argv object
27. Packages
    a. What is package
    b. Creating package
    c. Modules in package
    d. Accessing package
28. Iterator
    a. Introduction
    b. Constructing iterator object
    c. 'next()' method
    d. Exception in iterator
29. Files
    a. Opening a file
    b. Reading data from file
    c. File opening modes
    d. Combining file opening modes
    e. Copying a file
    f. Appending data to file
    g. CSV files
    h. Processing data from CSV files

** Duration of program in approximate hours including 'Hands – on'#.*

 # 'Hands – on' time is calculated according to standards, and may vary.