

Python Programming

Module-1: Python Introduction

- 1. Who should learn Python?**
- 2. Advantages of Learning Python.**
- 3. Why Python demand in current Industry**
- 4. Python History**
- 5. Python Features**
- 6. Python Installation and PATH setting**
- 7. First Python Program Development**

Module-2: Python Concepts

- 8. Python Keywords and Comments Concept**
- 9. Use of Quotes and different types**
- 10. Python Indentation Concept**
- 11. What is an identifier? What are the rules of an identifier?**
- 12. Python Variables and different ways to create variables**
- 13. Practical examples on variables, Identifiers, keywords**
- 14. How to reading input data from user?**
- 15. Working with input () function in Python?**
- 16. Python Datatypes and Datatype Conversions.**
- 17. Type Casting Functions and Examples?**
- 18. Python Operators Concept**

Module-3 : Variables & Data Types

- 19. Python Data Types and Data Structures**
- 20. Python String Data Structure**
- 21. Python Tuple Data Structure**
- 22. Python List Data Structure**
- 23. Python Set Data Structure**
- 24. Python Dictionary Data Structure**
- 25. Python Data Packing and Unpacking Concept**
- 26. Python data type Comprehensions concept**

Module-4 : Control Statements

- 27. Python Control Statements**
- 28. Python Conditional Statements**
- 29. Python Looping or Iterative Statements**
- 30. Python Transfer or Jump**
- 31. Working with enumerate and format functions**

Module-5 : Functions + Modules + Packages

- 32. Python Functions Concept.**
- 33. Types of Arguments in Functions.**
- 34. Local Variable Scope**
- 35. Global Variable Scope**
- 36. Scope Conversion**
- 37. Python Lambda Expressions**
- 38. Working with filter() , map() and reduce() functions.**
- 39. Python Modules Concept and Types of Modules?**
- 40. How many ways can we import a module in Python?**
- 41. Working with modules**
- 42. Python Packages**

Module – 6 : Files + Exceptions

- 43. Python Files Handling concept.**
- 44. Performing CRUD Operations in Files?**
- 45. Working with os module for handling files.**
- 46. Interview Questions on Files Handling concept.**
- 47. Python Exception Handling concept.**
- 48. Runtime Exceptions**
- 49. Userdefined Exceptions**

Module-7 : OOPS

50. What is OOPS

51. Class + Object + Method + Constructor + Variables

52. OOPS Principles

53. Working with Inheritance and Its types ?

54. Working with Polymorphism and Its types?

55. Working with Encapsulation and Its types?

56. Working with Abstraction and Examples?

Module-8 : Python with Database Comm..

57. Python with Database Connection Concept. (MySQL DB, Mongo DB, Oracle DB)

Module-9:

58. Python Interview Questions & Answers