



TECHHUB SOLUTIONS

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Python

Main Topic	Sub Topic
Installing Python and Setting up the Development Environment	Downloading Python and Installing Setting up path Introduction to different IDE and Editors for Python
Basic Programs Handling Data Type	Running python Python identifier, keywords, comments, etc Variable, Standard Data Types Python numbers, strings, operators
Conditional Statement, Looping, Control Statement	If...else Statement elif Statement Nested if-else While Loop, For Loop Nested loops Break & Continue Statement Pass
String Manipulation	Strings indexing and splitting String Operators Python Formatting operator Built-in String functions
Python Data Structure	List Tuple Dictionary Sequence Set
Functions in python	Defining a Function & Calling Passing by Reference Vs Passing by Value Global vs. Local variables Default argument, keyword argument and Variable-length arguments Lambda Expressions
Modules & Packages in Python	Creating & importing Module Built-in Modules The dir() Function Packages

Exceptions	What is Exception Handling an Exception The except Clause with Multiple Exceptions The try-finally Clause User-Defined Exceptions
Files I/O	Handling different types of file Opening a text file and a binary file Different modes of opening a file Reading and writing to a file Operations using file-handling
Object and Classes in Python	Introduction to the concepts of OOP Declaration of a class Basic properties, constructor self, super keywords Creating an object of a class Importing a custom class Programs involving classes Iterators Generators