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- @ Basic Python syntax and datatypes
- 3 Control flow and Loops
- 1 String manipulation and List handling
- 1 Working with Tiples, Dictionaries and Sets
- @ Defining and using functions
- 1. Object oriented Programming Concepts
- (B) File handling and Error & Exception handling.

Module 1: Introduction

- Introduction to Python for Beginners
- Content of Python course
- Pre-requisite for Python

Module 2: Installations

- Setting up Anaconda

Module 3: Basic Fundamentals of Python

- Print Hello world
- Variables
- Stack & Heap memory
- Id function
- Python comments
- Data types in Python
- Input functions in Python

Module 4: Print function

- Printing multiple values
- Default sep and end in Print
- Changing default reparator in Print
- changing default end in Print

Module 5: Operators in Python

- Intro to Python operators
- Arithmetic Operators
- comparison operators
- Assignment operators
- Logical AND / OR/ NOT operators
- Special operators.

Module 6: Control flow - control flow Introduction - if eln - Nested if een - if elif & else Module 7: Loops in Python - While loop - Range function - Iterator Iterable & Iteration - For loop - Break continue a Paro statements Module 8: Strings in Python - Strings in Python - Ord & chr in Python - Indexing in Storings - Accessing a character in String - String Slicing - String Methods - String Formalting - String Concetenation Module 9: Lists - Intro to Data Structures in Python - Introduction to Lists in Python - List Blicing - List operations - Append Vs Extend in Lists - Heterogenous Lists - 20 Lists - Iteration in 21 List

- List comprehension

Module 10: Tuples - Intro to Tuples in Python - Creating a Tuple - Mutability in Tuples - Tuple unpacking - Tuple operations Module 11: Dictionary - Introduction to Dictionary - Creating Dictionary - Accessing Data in Dictionary - Updating Dictionary Deletion operations in Dictionary Iteration in Dictionary More Dictionary Mathads Module 12: Sets - Intro to Sets in Python - Update and delete operations Interaction - Union - Difference Module 13: Functions = Functions Introduction - Defining a Function - Docstrings - Parametu & Arguments - Return - Returning Multiple Valus - Scope of a Variable - Lambda function

- Argument Vs Payameter in Functions - Positional Arguments - Default Arguments - Default to lows mon-default - Arbitrary arguments - Keyword Arguments Module 14: ODP in Python - Intro to oops in Python - Class & Object in Python - class constructor - class Methods - clan vooriables - Adding more methods in class - Inheritana - Adding attributes in derived class - Adding Methods in derivad class - Polymorphism in Python - Operator send polymorphism - Function level polymorphism. Module 15: File Handling in Python - Intro to File Handling in Pythow - File operations in Python - with open Writing a file - Reading a file - Handling Birary file

- Appending in a Fill

Module 16: Error & Exception Handling

- Intro to Error & Exception in Python
- Try & Except
- Exapt block
- Finally in pythow.