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Python training course content

✓ Introduction to Python

- Python – The Universal Language

✓ Getting Started

- Installing Python
- Python - "Hello World"
- Using the Interpreter
- iPython - a better Python interpreter

✓ Language Basics

- Types
- Dynamic v/s Static Typing
- Strong v/s Weak Typing
- Numbers
- Strings
- Unicode
- Complex types
- Operators
- Operator Overloading
- Variables
- Scoping and Expressions
- Use of tabs and whitespaces as indent
- Conditionals
- for...else

✓ Functions

- The general syntax
- Default values for arguments
- Returning and receiving multiple values
- Variable number of arguments – args, kwargs
- Scope revisited

✓ Collections

- Primitive v/s Composite Types
- Lists
- Tuples
- Maps (or Dictionaries)
- Sets
- Enums
- Looping Techniques

✓ Modularisation of code

- Global and Local namespace
- Introduction to modules

- Using modules
- Creating your own modules
- Working with a third-party library

✓ Regular Expressions

- Matching v/s Searching
- Regular Expression Objects
- Match Objects
- Examples

✓ Files and Directories

- Reading Files
- Writing Files
- Handling I/O Errors
- Higher level file operations
- File and Directory comparisons

✓ Exception Handling

- Exception handling basics
- try...except
- Examples

✓ Socket Programming

- Introduction to networking concepts
- Creating a socket
- Using a socket
- Disconnecting

✓ Object Oriented Programming Basics

- Introduction to OOP
- Classes and Objects
- Instance methods and data
- Initialization of objects
- Inheritance
- Multiple and Multilevel Inheritance
- Method overriding
- Classes and Types