

Python Programming



1. Introduction to Python Programming

- Introduction to Python
- Use case of Python

2. Python Installation

- Installation on Windows
- Installation on Mac
- Set Path in Mac and Windows
- Access Python from Command Prompt
- Working with Python IDLE
- Python 2 vs Python 3

3. Python Basics



- **Identifiers & Keywords**
- **Variables assignment**
- **Variables Naming convention Intro- Datatypes, Operators**
- **Comments- Single-Line, Multi-Line**

4. Python Print and Input



- **Python Simple Print Statement**
- **Print using string format and f-strings**
- **Multiline print with Python**
- **Print using Walrus Operator in Python 3.8**
- **Taking Inputs**

5. Python Loops



- **Introduction to loops**
- **For Loop vs While Loop**
- **All about Range function**
- **Nested for loops**
- **Exercise Based on Loops**

6. Python Conditional Statements



- Introduction to If Else and Elif Statements
- Introduction to Break and continue keywords
- Exercise on if else
- Mini Application using python

7. Python Data Types



- Mutable vs Immutable Data Types
- Introduction to Strings
- String assignment
- List
- Tuples
- Dictionary
- set
- Exercise

8. Functions



- Introduction to Function
- Syntax and Arguments
- Types of Arguments
- Exercise on User defined Functions
- Exercise on Pre defined Functions

9. File Handling



- Introduction to File I/O
- Mode & Operations
- Read & Write Text Files
- Read & write Byte Files

10. Exception Handling



- Exception heirarchy
- Try , except , else and finally keywords
- Raise exceptions

11. Intro to Web Crawling



- Web Crawling Vs Web Scrapping
- Installing And Testing Package
- Understanding Package to make HTTP requests
- Scrapping
- Projects

12. API Calls

- API Calls

13. Game Project

- Game Project using python

