CLOUD FLIX
SOLUTIONS

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Python Course Curriculum.

1. Python – Overview

- ➢ A brief history of python
- ➢ Application and trends in python
- ➢ Available python versions

2. Python – Environment Setup

- ➢ Getting and installing python
- ➢ Environmental variables and idle
- ➢ Executing python from command line

3. Fundamentals

- ➢ I/o
- ➢ Naming conventions
- ➢ Data types:
- ➢ Numbers
- ➢ String
- ➢ List
- ➢ Tuple
- ➢ Dictionary
- ➢ Set

4. Python Operators

- ➢ List, Tuple, Dictionary, Set Methods

5. Statements:

- ➢ If, elif, Break, Continue

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6. Loops:

  ➢ For loop, while loop

7. Functions

8. Python Operators

9. List, Tuple, Dictionary, Set Methods

10. Statements: If, elif, Break, Continue

11. Loops: For Loop, While Loop

12. Functions

13. Oops Concepts:

  ➢ Class and objects
  ➢ Getters and setters
  ➢ Properties
  ➢ Inheritance
  ➢ Polymorphism

14. Special Functions of Python:

  ➢ Lambda, Map, Reduce, Filter

15. Modules in Python:

  ➢ Math
  ➢ Arrow
  ➢ Geopy
  ➢ Beautiful soup
  ➢ Numpy
  ➢ Sys

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➤ Os

16. Multithreading:

➤ Introducing threads and life cycles
➤ Priorities
➤ Dead Locks

17. Exceptional Handling

➤ Errors
➤ Runtime errors
➤ Exceptional model
➤ Exceptional hierarchy
➤ Handling multiple exception
➤ Raise exceptions

18. File Handling

➤ Text files
➤ Csv files

19. Regular Expressions

➤ Simple character matches
➤ Flags, quantifiers, greedy matches
➤ Grouping and matching objects
➤ Matching at beginning or end
➤ Substituting and splitting a string
➤ Compiling regular expressions

20. Generators

21. Iterators

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22. Decorators

23. Closures

24. Gui Interfacing: Tkinter

- Widgets
- Integrated application
- Mysql/with application
- Converting .exe