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Core Python Programming for Beginners

- It's a beginner's course.
- Learn to code friendly, relax, interactive, and practical.
- Learn conveniently from your internet connection.
- Class recordings are available.
- No coding experience is required.

After completing this course, you can:

- Identify core aspects of programming and features of the Python language.
- Understand and apply core programming concepts like data structures, conditionals, loops, variables, and functions.
- Design and write fully-functional Python programs using commonly used data structures, custom functions, and reading and writing to files.
- Eligible to learn Django Framework.

Course Outline:

1. What is programming?

   History of python

   Binary numbers

2. Python setup

   How python works

   Python Code Structure

3. Python print Statement

   Python values & types

4. Python Variables

   Python Assignment Statements

Python Object reference

Python Inputs

5. Python Operators

   Python Expression

6. Python Math Module

7. Python Comparison Operators

8. Python Boolean Operators

9. Python Conditional Statement

10. Python Functions

11. Python Scope of a variable

12. Python Docstrings

13. Python Loops (for loop)

    Python Loops (while loop)

14. Python Random

15. Python Modules

16. Python Turtle

17. Python Strings

    Python Strings and loops

18. Python Intro to lists

    Python Nested loops

19. Python Raising Exception

20. Python Strip, Split join

21. Python Object Identity

22. Python Mutable vs Immutable

23. Python Nested lists

    Python Copies

24. Python File I/O (Theory)

    Python File I/O (Practical)

25. Python Dictionaries (theory)

    Python Dictionaries (practical)

26. Tuples / enumerate

27. Exception Handling

28. Function Objects

29. Python Matplotlib

30. Python Classes & Objects

- ✓ Working with class & object
- ✓ Serializing Objects
- ✓ Working With interfaces
- ✓ Techniques for designing classes

Skills you will learn:

- Python syntax & Structures
- Python Programming
- Programming Principles
- Techniques for designing classes.

---------- **The End**----------