



# PYTHON FOR BEGINNERS

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PYTHON TUTORIAL FOR BEGINNERS SYLLABUS.

1. INTRODUCTION TO PYTHON: why learn python, feature of python, importance of learning python, application of python programming.
2. BASIC ELEMENTS OF PYTHON: keywords, data types, identifiers, operators, statements.
3. INSTALLATION OF PYTHON.
4. INPUT AND OUTPUT STATEMENTS IN PYTHON.
5. DATA TYPES IN PYTHON: int, float, strings, lists, tuples, dictionaries.

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6. OPERATORS IN PYTHON: arithmetic, logical, assignment, relational, bitwise, membership operators.
7. TYPE CONVERSION IN PYTHON: implicit and explicit conversion in python.
8. BASIC PROGRAMMING IN PYTHON.
9. INTRODUCTION TO MATH MODULE IN PYTHON.
10. CONDITIONAL STATEMENTS IN PYTHON: simple if, simple if-else, multiple if-else, nested if-else.
11. LOOPING IN PYTHON: for loop, while loop in python, break and continue keywords in python, nested for loop in python.
12. FUNCTIONS IN PYTHON: declaration and definition of functions in python, passing arguments in functions, return keyword, function calling, arbitrary arguments, keywords arguments, default arguments in python.
13. STRINGS IN PYTHON: basics of strings, string functions.
14. LISTS IN PYTHON: introduction, list functions in python, list programs.
15. TUPLES IN PYTHON: basics, tuple functions.
16. SETS IN PYTHON: basics, set operations.
17. DICTIONARIES IN PYTHON: basics, functions in dictionaries, examples.
18. BUILT-IN METHODS IN PYTHON.
19. LAMBDA FUNCTIONS IN PYTHON.
20. FILE HANDLING IN PYTHON.
21. EXCEPTION HANDLING IN PYTHON.
22. PYTHON PROGRAM EXAMPLES.
23. OPERATOR PRECEDENCE IN PYTHON.
24. RECURSION IN PYTHON.
25. PROGRAMMING EXAMPLES IN PYTHON.

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26. OBJECT ORIENTED PROGRAMMING IN PYTHON: class, objects, inheritance, polymorphism, terminologies, class attributes, object attributes, examples.
27. TIME MODULE IN PYTHON.
28. BOOLEAN IN PYTHON.
29. MISCELLANEOUS TOPICS.