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Python Programming

Python is one of the hottest programming languages of 2020

With the emerging trend of Data science & machine learning. Python can surely help you grab a high paying programming job.

We have create a series of Python Tutorials and several practical examples

Learn Python

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Chapter 1: Introduction to Python

- Python – Keywords and Identifiers :
  - *In python keywords are the reserved words for special purposes. Identifiers are the names which we choose for custom variables, functions, or classes in a python program. Learn more important rules*

and facts about keywords and identifiers in python. Read More.....

- Python Variables:
  - *In python, a variable is a like tag or reference that points to an object in the memory. Learn important points about variables in python, like creating variables and changing the value of a variable etc. Read More....*
- Literals in Python:
  - *A Literal in python is a raw data or a constant value that can be assigned to variable. There are different types of literals in python like, Numeric Literals, String Literals and Bool Literals. Learn more about them. Read More....*

Chapter 2: Conditional Expressions

- if-statement:
  - *Learn how to control the flow of code using if-statement . Read More.....*
- if...else statement:
  - *Learn to alter the flow of code in two directions based on conditions. Read More....*
- if...else if...else statement:
  - *Learn how if, else if and else works in python and understand alter the flow of code in multiple directions based on various conditions. Read More....*
- if...else in one line:
  - *Learn how to use the if-else in a single line, and it will give the same effect as the ternary operator. Read More....*

Chapter 3: Loops in Python

- while-loop in python:
  - *A while loop in python executes a group of statements or a suite of statements multiple times, till a given condition is True. Read More.....*
- for-loop in python:
  - *Iterate over a group of statements multiple times using a for loop. But the number of times these statements will be executed by a for loop depends upon a sequence. Read More....*

- break keyword and loops
    - *Learn how to use the break keyword in python to break the flow of loops abruptly. Read More....*
- continue keyword and loops
    - *Calling the continue keyword inside the loop, will make the control jump to the starting of the while loop again. All the lines after the continue keyword will get skipped for that particular iteration. Read More....*

Chapter 4: List Datatype

- Creating Lists
    - Create a List and initialize with values in python.
- Add or update elements in Lists
    - How to add an element in a list? | append() vs extend()
    - How to insert an element at a specific index in List?
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    - Different ways to iterate over a List in python.
- Remove elements from Lists
    - Remove elements from list by value
    - Remove elements from list by index or indices
    - Remove elements from a list while iterating
    - Remove first element from a list (5 Ways)
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    - How to remove multiple elements from a list in python?
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    - How to find all indexes of an item in a List?
    - How to check if an item exists in List? | Search by Value or Condition?
    - Check if a list contains all the elements of an another list in python.
    - Check if all elements in a List are similar or match a condition.
- Sort a list by key or Value

        - How to sort a list of strings in python.
        - How to sort a list of tuples by 2nd Item using lambda function or a compartor.
    - Merging / Joining Lists
        - How to merge or join two or more lists in python.
    - Counting elements in Lists
        - Count elements in a list, lists of lists or nested list in python.
        - Count elements in a list that satisfy certain conditions in python.
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        - Three ways to check if there are duplicates in a List.
        - Find duplicates in a list with frequency count & index positions.
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        - Convert list of lists or nested list to flat list in python.

Chapter 5: strings

- Access characters in string by index
- Check if a string contains a sub string
- Iterate over the characters in string
- Find occurrence a sub-string in string
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- Find frequency of each character in string
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- Create multi line string objects in python
- How to get first N characters in a string

- How to get Last N characters in a string

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- How to iterate over a dictionary?
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- How to Iterate over nested dictionary ?
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- Unpack tuple / dictionary as arguments
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- filter() function tutorial with examples
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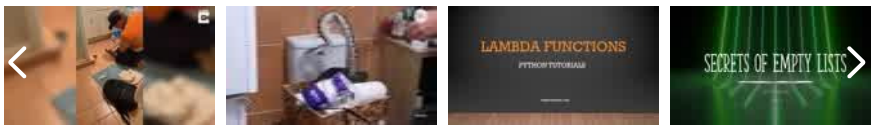

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