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## Python iterate through string by line

In this tutorial, you will find out different ways to iterate strings in Python. You could use a for loop, range in Python, slicing operator, and a few more methods to traverse the characters in a string. Multiple Ways to Iterate Strings in Python The following are various ways to iterate the chars in a Python string. Let's first begin with the for loop method. Using for loop to traverse a string It is the most prominent and straightforward technique to iterate strings. Follow the below sample code: `''' Python Program: Using for loop to iterate over a string in Python ''' string_to_iterate = "Data Science" for char in string_to_iterate: print(char)` The result of the above coding snippet is as follows: D a t a S c i e n c e Python range print(string\_to\_iterate[char\_index]) The result of the above coding snippet is as follows: D a t a S c i e n c e Slice operator iterate strings partially You can traverse a string as a substring by using the Python slice operator ([]). It cuts off a substring from the original string and thus allows to iterate over it partially. The [] operator has the following syntax: # Slicing Operator string [starting\_index : ending\_index : step\_value] To use this method, provide the starting and ending indices along with a step value and then traverse the string. Below is the example code that iterates over the first six letters of a string. `''' Python Program: Using slice [] operator to iterate over a string partially ''' string_to_iterate = "Python" for char in string_to_iterate[0 : 6 : 1]: print(char)` The result of the above coding snippet is as follows: P y t h o n You can take the slice operator usage further by using it to iterate over a string but leaving every alternate character. Check out the below example. `''' Python Program: Using slice [] operator to iterate over a specific parts of a string ''' string_to_iterate = "Python_Data_Science" for char in string_to_iterate[::2]: print(char)` The result of the above coding snippet is as follows: P t o \_ a s S i n e Traverse string backward using slice operator If you pass a -ve step value and skipping the starting as well as ending indices, then you can iterate in the backward direction. Go through the given code sample. `''' Python Program: Using slice [] operator to iterate string backward ''' string_to_iterate = "Machine Learning" for char in string_to_iterate[::-1]: print(char)` The result of the above coding snippet is as follows: g n i n r a e L e n i h c a M Using indexing to iterate strings backward Slice operator first generates a reversed string, and then we use the for loop to traverse it. Instead of doing it, we can use the indexing to iterate strings backward. `''' Python Program: Using indexing to iterate string backward ''' string_to_iterate = "Machine Learning" char_index = len(string_to_iterate) - 1 while char_index >= 0: print(string_to_iterate[char_index]) char_index -= 1` The result of the above coding snippet is as follows: g n i n r a e L e n i h c a M Alternatively, we can pass -ve index value and traverse the string backward. See the below example. `''' Python Program: Using -ve index to iterate string backward ''' string_to_iterate = "Learn Python" char_index = -1 while char_index >= 0: print(string_to_iterate[char_index]) char_index += 1` The result of the above coding snippet is as follows: P y t h o n

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