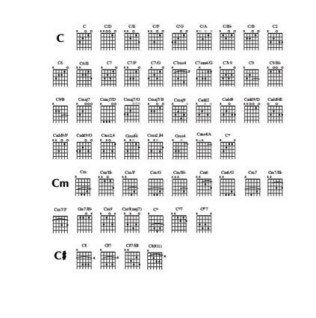


I'm not robot!



```
Turbo C++ IDE
File Edit Search Run Compile Debug Project Op
LWRCASE.C
void main()
{
char s[50],*c;
clrscr();
printf("\nENTER STRING TO CONVERT TO LOWERCASE : ");
scanf("%s",&s);
c=s[0];
while(c != NULL)
{
if(*c>='A' && *c<='Z')
*c=*c+32;
c++;
}
printf("\nCONVERTED LOWERCASE STRING IS :- %s",s);
getch();
}
```



```
using System;
namespace CSharp_Tutorial
{
class String_Functions
{
static void Main(string[] args)
{
Decimal temp = 25.36M;

string s = String.Format("The temperature is now {0}'C", temp);

Console.WriteLine(s);
Console.WriteLine();

string str = "This is a Tutorial";
bool i = str.Contains("is a");
Console.WriteLine(i);
}
}
```



DECCA  
ELOQUENCE

MOZART  
Four Flute Quartets  
Oboe Quartet  
Clarinet Quintet

SCHUBERT  
String Quintet

Arthur Grumiaux  
William Bennett  
Pierre Pierlot  
George Pieteron



Converting one data type into another is a frequent problem in python programming and it is essential to deal with it properly. Dictionary is one of the data types in python which stores the data as a key-value pair. However, the exchange of data between the server and client is done by python json which is in string format by default. As it is necessary to convert the python string to dictionary while programming, we have presented a detailed guide with different approaches to making this conversation effective and efficient. But before jumping on the methods, let us quickly recall python string and dictionary in detail. What is Strings in Python? Python string is an immutable collection of data elements. It is a sequence of Unicode characters wrapped inside the single and double-quotes. Python does not have a character data type and therefore the single character is simply considered as a string of length 1. To know more about the string data type, please refer to our article "4 Ways to Convert List to String in Python". Check out the below example for a better understanding of strings in python For Example a = "Python Programming is Fun" print(a) Output Python Programming is Fun What is Dictionary in Python? A dictionary is an unordered collection of data elements that is mutable in nature. Python dictionary stores the data in the form of key-value pair. Hence we can say that dictionaries are enclosed within the curly brackets including the key-value pairs separated by commas. The key and value are separated by the colon between them. The most important feature of the python dictionaries is that they don't allow polymorphism. Also, the keys in the dictionary are case-sensitive. Therefore, the uppercase and lowercase keys are considered different from each other. Later, you can access the dictionary data by referring to its corresponding key name. Check out the below example for a better understanding of dictionaries in python. For Example sample\_dict = { "vegetable": "carrot", "fruit": "orange", "chocolate": "kitkat" } print(sample\_dict) Output {'vegetable': 'carrot', 'fruit': 'orange', 'chocolate': 'kitkat'} Convert String to Dict in Python Below are 3 methods to convert string to the dictionary in python: 1) Using json.loads() You can easily convert python string to the dictionary by using the inbuilt function of loads of json library of python. Before using this method, you have to import the json library in python using the "import" keyword. The below example shows the brief working of json.loads() method: For Example import json original\_string = '{"John": 01, "Rick": 02, "Sam": 03}' # printing original string print("The original string is: " + str(original\_string)) # using json.loads() method result = json.loads(original\_string) # print result print("The converted dictionary is: " + str(result)) Output The original string is: '{"John": 01, "Rick": 02, "Sam": 03}' The converted dictionary is: {'John': 01, 'Rick': 02, 'Sam': 03} 2) Using ast.literal\_eval() The ast.literal\_eval() is an inbuilt python library function used to convert string to dictionary efficiently. For this approach, you have to import the ast package from the python library and then use it with the literal\_eval() method. Check out the below example to understand the working of ast.literal\_eval() method. For Example import ast original\_string = '{"John": 01, "Rick": 02, "Sam": 03}' # printing original string print("The original string is: " + str(original\_string)) # using ast.literal\_eval() method result = ast.literal\_eval(original\_string) # print result print("The converted dictionary is: " + str(result)) Output The original string is: '{"John": 01, "Rick": 02, "Sam": 03}' The converted dictionary is: {'John': 01, 'Rick': 02, 'Sam': 03} 3) Using generator expression In this method, we will first declare the string values paired with the hyphen or separated by a comma. Later we will use the strip() and split() method of string manipulation in the for loop to get the dictionary in the usual format. Strip() method will help us to remove the whitespace from the strings. This method is not as efficient for the conversion of string to dictionary as it requires a lot of time to get the output. Check out the below example for the string to dictionary conversion using a generator expression For Example original\_string = "John - 10 , Rick - 20, Sam - 30" print("The original string is ", original\_string) #using strip() and split() methods result = dict((a.strip(), int(b.strip())) for a, b in (element.split('-') for element in original\_string.split(', '))) #printing converted dictionary print("The resultant dictionary is: ", result) Output The original string is John - 10 , Rick - 20, Sam - 30 The resultant dictionary is: {'John': 10, 'Rick': 20, 'Sam': 30} Conclusion String and dictionary data type has its own importance when it comes to programming in python. But when we wish to share the data over the network as a client-server connection, it is very important to convert a string into the dictionary for error-free data transfer. We have mentioned the three common methods to explicitly convert the string into a dictionary which will help you to make your programming faster and efficient. To learn more about dictionary and JSON in python, check our detailed guide on "5 Ways to Convert Dictionary to JSON in Python". As Python 3.0 and 3.1 are EOL'ed and no one uses them, you can and should use str.format\_map(mapping) (Python 3.2+); Similar to str.format(\*\*mapping), except that mapping is used directly and not copied to a dict. This is useful if for example mapping is a dict subclass. What this means is that you can use for example a defaultdict that would set (and return) a default value for keys that are missing: >>> from collections import defaultdict >>> vals = defaultdict(lambda: ", {bar": 'baz'}) >>> foo is {foo} and bar is {bar}' .format\_map(vals) foo is and bar is baz' Even if the mapping provided is a dict, not a subclass, this would probably still be slightly faster. The difference is not big though, given >>> d = dict(foo='x', bar='y', baz='z') then >>> 'foo is {foo}, bar is {bar} and baz is {baz}'.format\_map(d) is about 10 ns (2 % faster than >>> 'foo is {foo}, bar is {bar} and baz is {baz}'.format("d) on my Python 3.4.3. The difference would probably be larger as more keys are in the dictionary, and Note that the format language is much more flexible than that though; they can contain indexed expressions, attribute accesses and so on, so you can format a whole object, or 2 of them: >>> p1 = {'latitude':41.123,'longitude':71.091} >>> p2 = {'latitude':56.456,'longitude':23.456} >>> '{0[latitude]} {0[longitude]} - {1[latitude]} {1[longitude]}'.format(p1, p2) '41.123 71.091 - 56.456 23.456' Starting from 3.6 you can use the interpolated strings too: >>> f'lat:{p1["latitude"]} lng:{p1["longitude"]}' 'lat:41.123 lng:71.091' You just need to remember to use the other quote characters within the nested quotes. Another upside of this approach is that it is much faster than calling a formatting method. View Discussion Improve Article Save Article Like Article Dictionary is an unordered collection in Python which store data values like a map i.e., key:value pair. In order to convert a String into a dictionary, the stored string must be in such a way that key:value pair can be generated from it. This article demonstrates several ways of converting a string into a dictionary. Method 1: Splitting a string to generate key-value pair of the dictionary In this approach, the given string will be analysed and with the use of split() method, the string will be split in such a way that it generates the key-value pair for the creation of a dictionary. Below is the implementation of the approach. str = "Jan = January, Feb = February, Mar = March"dictionary = dict(subString.split("=") for subString in str.split(","))print(dictionary)Output: {'Feb': 'February', 'Mar': 'March', 'Jan': 'January'}Method 2: Using 2 strings to generate the key-value pair for the dictionary In this approach, 2 different strings will be considered and one of them will be used to generate keys and another one will be used to generate values for the dictionary. After manipulating both the strings the dictionary items will be created using those key-value pair. Below is the implementation of the approach. str1 = "Jan, Feb, March"str2 = "January | February | March"keys = str1.split(",")values = str2.split("|")dictionary = {}for i in range(len(keys): dictionary[keys[i]] = values[i]print(dictionary)Output: {'Jan': 'January', 'Feb': 'February', 'March': 'March'}Method 3: Using zip() method to combine the key-value pair extracted from 2 string In this approach, again 2 strings will be used, one for generating keys and another for generating values for the dictionary. When all the keys and values are stored, zip() method will be used to create key:value pair and thus generating the complete dictionary. Below is the implementation of the approach. str1 = "Jan, Feb, March"str2 = "January | February | March"keys = str1.split(",")values = str2.split("|")dictionary = dict(zip(keys, values))print(dictionary)Output: {'March': 'March', 'Jan': 'January', 'Feb': 'February'}Method 4: If the string is itself in the form of string dictionary In this approach, a string which is already in the form of string dictionary i.e., the string has a dictionary expression is converted into a dictionary using ast.literal\_eval() method. Below is the implementation of the approach. import aststr = '{"Jan": "January", "Feb": "February", "Mar": "March"}'dictionary = ast.literal\_eval(str)print(dictionary)Output: {'Feb': 'February', 'Jan': 'January', 'Mar': 'March'} View Discussion Improve Article Save Article Like Article Dictionary is an important container and used almost in every code of day-day programming as well as web-development, more it is used, more is the requirement to master it and hence knowledge of its operations is necessary. Let's see the different ways of changing dictionary into string.Methods #1: Using json.dumps() json.dumps() is an inbuilt function in json library. It has advantage over pickle because it has cross-platform support.import json test1 = { "testname": "akshat", "test2name": "manjeet", "test3name": "nikhil"} print (type(test1))print ("initial dictionary = ", test1)result = json.dumps(test1)print ("", type(result))print ("final string = ", result)Output: initial dictionary = { 'testname': 'akshat', 'test2name': 'manjeet', 'test3name': 'nikhil'} final string = { 'testname': 'akshat', 'test2name': 'manjeet', 'test3name': 'nikhil'} Methods #2: Using str() The str() function converts the specified value into a string. test1 = { 'testname': 'akshat', "test2name": 'manjeet', "test3name": 'nikhil'}print (type(test1))print ("initial dictionary = ", test1)result = str(test1)print ("", type(result))print ("final string = ", result)Output: initial dictionary = { 'test2name': 'manjeet', 'testname': 'akshat', 'test3name': 'nikhil'} final string = { 'test2name': 'manjeet', 'testname': 'akshat', 'test3name': 'nikhil'}



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