I'm not robot

reCAPTCHA

Continue

I'm not robot

reCAPTCHA

List to string python function

By using the .join() using the map() creating a user-defined function in this post, we will learn how to convert the list to a series of python programming language. Using the .join() first approach that we are going to learn is to use the join method. connection is a method that can be used in strings. An argument requires iterable(list) as an argument, and when you convert a list to a string, the string is used as a delimiter. '-'.join([this,is,a,list]) 'this--is--list' ''.join([this,is,a,list]) thisisalist '--the-list' '--'.join ([this,is,a, list]) thisisalist '--'.join([this,is,a,list])''.join([this,is,a,list]) If any of the items on the list are not stringed, this method wont work. See below, for example. TypeError is enlarged because element 11 is not a string. .join(['A', 'cricket', 'team', 'has', 11, 'players']) TypeError: sequence item 4: expected str instance, int found ''.join(['A', 'cricket', 'team', 'has', 11, 'players'])TypeError: sequence item 4: str expected instance, int found in such cases convert all nest string elements first and then join the method. Note that here we use a list of understanding of the argument to join the method list1 = ['A', 'cricket', 'team', 'has', 11, 'players'] ''.join(str(elem) for elem in list1]) 'A cricket team has 11 players' list1 = ['A', 'cricket', 'team', 'has ', 'players']'.join([str(elem) for elem in list1])'A cricket team has 11 players' Using map() Suppose your list contains integers only , and you want to create a series of all items on the list. Before joining each list item, you must convert it to a string. You can make a conversion to strings by using the map. We will transfer each list item to the function str to convert them to a string before it is conced with the connection method. list1 = [1,2,3,4,5] ''.join(map(str, list1)) '12345' when creating a user-defined other approach function is to create a function that contains logic to convert a list to a string. We chain each element until we cross the entire list. But performance wise, this approach is a little slower than using a card or join. def convertListToStr (lst): output = for element lst: output = output + element return output def convertListToStr ([this, is, a, list]) 'thisisalist' convertListToStr([this,is,a,list]) Please try these approaches and let me know if any questions. Happy coding! Subscribe to Get Your Free Python Data Science Hand Book Register From Zero to Data Scientist NOW! L =['L','O','L'] makeitastring =''.join(map(str, L)) In this article we will discuss different ways to convert the list to string. Convert list to string python using join() python Python String Class provides function join() i.e. string.join (iterable) function assumes order, such as a list or tuple, etc. as an argument and then connects all the items in that iterable order to create a string. After all, it returns a complex string. Let's use this join() function to convert the list to string python. We have created a function that accepts the list, and the delimiter as the arguments returns the string, adding all items in this list, def convert_list_to_string (org_list, seperator=''): Convert list to string by adding all items in list with specified separator. Returns a complex string returns seperator.join(org_list) It uses the specified delimiter as a separator when you add items to a list. If the delimiter is not intended, it uses white space as a delimiter by default. Now let's use this function to convert list to string, Convert string list to string with space as delimiter python Let's say we have a list of strings, list_of_words =[This is, sample, program] Convert list to string, join all string items in list to create compound string, def convert_list_to_string (org_list, seperator =' '): Convert list to string by adding all items in list with specified separator. Returns a complex string returns seperator.join(org_list) # Join all list strings full_str = convert_list_to_string (list_of_words, '',) print(full_str) Output: this is the sample program in this example, when calling the convert_list_to_string(), we passed the comma as separator. Convert the list to a string with comma as a delimiter python def convert_list_to_string(org_list, seperator='' '): Convert list to string by adding all items in list with specified separator. Returns the complex string returns seperator.join(org_list) # Join all list strings full_str = convert_list_to_string (list_of_words, ',') print(full_str) Output: this is the sample program in this example, when calling the convert_list_to_string (), we passed the comma as separator. Convert list to string with custom delimiter python We can also use any custom delimiter while converting the list to string. For example, def convert_list_to_string (org_list, seperator =' '): Convert list to string by adding all items to a list with the specified separator. Returns a complex string returns seperator.join(org_list) # Join all list strings full_str = convert_list_to_string (list_of_words, '---') print(full_str) Output: This---is---a---sample---programs In this example, calling the convert_list_to_string function (), we passed the comma as a delimiter/separator, so it joined all items in the list using --- as a separator. Convert list to integers to python using join() in python Let's say we have a list of whole numbers, list_of_num = [1, 2, 3, 4, 5] We want to convert this list to ints ints string by connecting all integers a list in the representation of a string to the specified delimiter as a separator between items. The final string should be like, 1 2 3 4 5 We can do using the join() function, but we need to convert the ints list to a string list first, and then we can join all items in this list to create a string with separator. For example, list_of_num = [1, 2, 3, 4, 5] # Covert list of integers to a string full_str = ' '.join([str(elem) for elem in list_of_num]) print(full_str) Output: 1 2 3 4 5 We joined all elements using space as a delimiter. Convert a list of different types of items to a string using join() in python Let's say we have a list containing different types of items such as int, float, strings etc, mix_list = [This, is, sample, 44, 55, 66, program] We want to convert this list string by combining all items in the list of string displays with given delimiter as separator between items. The final string would be like this is a sample 44 55 66 program We can do using the join() function, but we must first convert the list of different types of items to the list of strings. For this we need to call str() on each point of the list to convert it to a string. Then we can join all items in the new string list to create a string. For example, mix_list = [This, is, a, sample, 44, 55, 66, program] # Covert list of different types of items string full_str = ' '.join ([str(elem) elem in mix_list]) print (full_str) Output: This is the sample 44 55 66 program We joined all elements using white space as a delimiter. Convert list to string using reduce() python python reduce (function, sequence [, original]) functools module python provides a function to reduce() which assumes iterable sequence as an argument and function as an argument. This function generates one value from all items in the current iterable order. To generate a value, it will pass the first two values to the specified function argument, and then continue to call the same function with the result and the next argument. When it consumes all items in a row, the final result value is returned. Let's use this to convert the list to a string, list_of_words = [This, is, a, sample, program] delimiter = ' ' final_str = functools.reduce (lambda a, b: str + norobežotājs + str(final_str)) Output: This is the sample program here we adopted two arguments to reduce() function, Lambda function that accepts 2 arguments and join these arguments with delimiter between. String List It joined all the elements in the list to create a string using the logic provided by lambda functions. Convert list of integers to string using reduce() in python list_of_num = [1, 2, 3, 4, 5] = ' ' final_str = functools.reduce (lambda a, b: str (a) + norobežotājs + str (b), list_of_num) print (final_str) Output: 1 2 3 4 5 Šeit mēs mēs two arguments to the reduce() function, lambda function that accepts 2 arguments. The two arguments are then converted to a string and connect these arguments to a delimiter between them. String List This joined all the numbers in the list to create a string using the logic provided by lambda function. Convert list to string by using map() python map() function python accepts 2 arguments, i.e. function and iterable sequence. Then call the given function for each element in sequence and return the iterator to recount it over the result objects. We can use that to convert the list string i.e. mix_list = [This, is, a, sample, 44, 55, 66, program] delimiter = ' ' # Convert list of items to string value final_str = delimiter.join(karte(str, mix_list)) print(final_str) Output: This is the sample 44 55 66 program Here we passed two arguments to the map() function, which is given to the value of the strings of objects of different types of goods list. It realized all the values in the list and called the str() function for each item. All string values were returned using the iterator. Then, using the join() function, we added all string values returned by Iterator using join () to generate the compound string. The complete example is the following, import functools def convert_list_to_string(org_list, seperator ='): Convert list to string by adding all items in the list with specified separator. Returns a complex string returns seperator.join(org_list) def main(): print('*** Convert list to string using join() in python ***') print('*** Convert list to string with space as delimiter***') list_of_words = [This, is, a, sample, program] # Convert string list to string full_str = convert_list_to_string (list_of_words) print full_str ('*** Convert list to string with comma as delimiter ***') # Join all strings list full_str = convert_list_to_string (list_of_words, ',') print ('*** Convert list to string with custom delimiter ***') # Join all strings in the list full_str = convert_list_to_string (list_of_words, '---') print(full_str) print('*** Convert list to string with custom delimiter python We can convert int list to a string full_str = '.join([str(elem) elem in list_of_num]) print(full_str) print(full_str) print('*** Convert different types of items to string ***) mix_list = [This , is, a, sample, 44, 55, 66, program] # Covert list of different type of items to string full_str = '.join([str(elem) for elem in mix_list]) print(full_str) print('*** Convert list to string using reduce() ***') list_of_words = [This, is, a, sample, program] delimiter = ' final_str = functools.reduce(lambda a,b : a + delimiter + b, list_of_words) print(final_str) print('*** Convert ints list to string using reduce() list_of_num = [1, 2, 3, 4, 5] norobežotājs = ' final_str = = a, b: str(a) + delimiter + str(b), list_of_num) print(final_str) print('*** Convert list to string using card() and join() ***') mix_list = [This is, a, sample, 44, 55, 66, program] delimiter = ' ' # Convert item list to string value final_str = delimiter.join(map(str, mix_list)) print (final_str) if __name__ =='__main__': main() Output: Convert *** list to string using join() in python *** *** list Convert to string with space as delimiter *** This is sample program *** Convert to string with comma as delimiter *** *** Convert list to string with custom delimiter *** It---is---a------gist---program *** Convert list to int on string *** 1 2 3 4 5 *** Convert list of different types of items to string *** This is sample 44 55 66 program Convert list string using cut () *** This is a sample *** using reduce() *** 1 2 3 4 5 *** Convert list string using map() and join () *** This is a sample 44 55 66 program Join list 2000 + programmers latest Tips & Tutorials Tutorials