how to get list of parameter name from a function in python In [32]: **def** fun(a, b, c): return a**b**c import inspect print(inspect.signature(fun)) (a, b, c) another way! In [30]: **def** myfun(a,b,c,d=89,s=34): pass f1=myfun f1.__code__.co_varnames #f1.__code__.co_argcount ('a', 'b', 'c', 'd', 's') Out[30]: How to Print Multiple Arguments in Python? In [40]: def books(book_name, year): print("BOOKS DETAILS : " , book_name + ',' + year) books("Harry potter" , "1984") books("Ruskin bond" , "1896") books("mark twain" , "1985") BOOKS DETAILS : Harry potter, 1984 BOOKS DETAILS : Ruskin bond, 1896 BOOKS DETAILS : mark twain, 1985 **DICTIONARY EXCERCISE** sort python Dictionaries by key or value In [55]: def diction(): $key = {}$ key[2] = 23key[1] = 78key[5] = 56key[6] = 295key[10] = 27print("key", key) print("keys and values sorted") for i in sorted(key): print((i, key[i]), end=" ") def main(): diction() **if** __name__ == "__main__": main() key {2: 23, 1: 78, 5: 56, 6: 295, 10: 27} keys and values sorted (1, 78) (2, 23) (5, 56) (6, 295) (10, 27) python dictionary with keys having multiple inputs In [59]: my_dict = {} a, b, c = 50, 126, 80 $my_dict[a, b, c] = a + b - c$ a, b, c = 52, 54, 11 $my_dict[a, b, c] = a + b - c$ print("The dictionary are :") print(my_dict) The dictionary are : {(50, 126, 80): 96, (52, 54, 11): 95} **TUPLES** Python program to Find the size of a Tuple In [60]: tup1= ("hema", "arthi", 1, 3) tup2= ("Python", "Language") tup3= ((1, "Java"), (2, "Python"), (3, "C")) #print size print("Size of tuple1: ", tup1.__sizeof__(), "bytes") print("Size of tuple2: ", tup2.__sizeof__(), "bytes") print("Size of tuple3: ", tup3.__sizeof__(), "bytes") Size of tuple1: 56 bytes Size of tuple2: 40 bytes Size of tuple3: 48 bytes Python – Maximum and Minimum K elements in Tuple In [66]: my_tuple = (17, 255, 396, 90, 60, 88) print("The tuple is : ") print(my_tuple) K = 2print("The value of K has been initialized to ") print(K) my_result = [] my_tuple = list(my_tuple)

PYTHON ASSIGNMENT

MATRIX EXERCISE

In [19]: **import** numpy **as** np

print(A)

print(B)

elments in A [[10 5] [9 9]] elments in B

[[4 4] [5 6]]

[[14 9] [14 15]]

[[6 1] [4 3]]

FUNCTION

Assigning subsequent rows to matrix first row element

my list :[[1, 2, 3], [4, 5, 6], [7, 8, 9], [10, 11, 12]] The matrix : {1: [4, 5, 6], 2: [7, 8, 9], 3: [10, 11, 12]}

result={my_list[0][val] : my_list[val+1] for val in range(len(my_list)-1)}

In [6]: my_list=[[1,2,3],[4,5,6],[7,8,9],[10,11,12]]
 print("my list :"+str(my_list))

print("The matrix : " +str(result))

Adding matrics and subtracting matrics

print("addition of two matrix")

print("subtraction of two matrics")

A = np.array([[10,5],[9,9]]) B = np.array([[4,4],[5,6]])

print("elments in A")

print("elments in B")

print(np.subtract(A,B))

addition of two matrix

subtraction of two matrics

temp = sorted(my_tuple)

print("The result is : ")

(17, 255, 396, 90, 60, 88)

print(my_result)

The tuple is :

The result is: (17, 60, 255, 396)

In [68]: test_str = "GeeksForGeeks"

for idx, val in enumerate(temp):

my_result.append(val)
my_result = tuple(my_result)

if idx < K or idx >= len(temp) - K:

The value of K has been initialized to

Way to remove i'th character from string in python

new_str = test_str.replace(z, '', 1)

The original string is : GeeksForGeeks Which character you want to remove ?e

Reverse words in a given string in python

s = string.split()[::-1]

l.append(i)
print(" ".join(l))

python is this hi

string = 'amaama'

half = int(len(string) / 2)

if first_str == second_str:

amaama string is symmertical amaama string is palindrome

Minimum of two numbers in python

for i in range(1, n+1):

Enter number of elements:4

The smallest element is: 12 Second smallest element is: 15

Maximum of two numbers in python

for i in range(1,n+1):

Enter number of elements:4

First largest element is: 455 Second largest element is: 65

a.append(b)

Enter element:45 Enter element:455 Enter element:65 Enter element:45

Ways to find length of list

for i in range(n_5):

n_6 = int(input())
List.append(n_6)

Enter no of array elements :4

In [76]: def swapPositions(list, pos1, pos2):

return list

for i in range(n_5):

pos1, pos2 = 1, 3

[6, 5, 4, 1, 5]

In [78]: def swapList(newList):

newList = []

[5, 8, 9, 7]

temp = n_3 rev = 0

while(n_3>0):

Enter number:121

In [80]: rows = 6

In [81]: x = []

Print the following pattern

122333444455555

for i in range(rows):
 for j in range(i):

print('')

for i in range(n_1):

 $x.append(x_1)$

for i in x:

x_2 = []
def div_5(x):

 $div_5(x)$

5 7 $x_1 = int(input())$

print("Given list",x)

if i%5 == 0:

print("The list is", x_2)

Given list [4, 5, 7, 8]

The list is [5]

Enter no. of list elements4

 $x_2.append(i)$

str_1 = str(input("Enter string values"))
print ("The original string is : " + str_1)

Enter the position of the string to remove5

The string after removal of i'th character : 4578457

 $new_str = str_1[:(n-1)] + str_1[n:]$

The original string is: 45781457

Enter string values45781457

In [84]: m = int(input("Enter an integer:"))

for j in range(0, i+1):
 print("*", end='')

In [85]: n = int(input("Enter a integer value:"))

dig = temp % 10
sum += dig **3
temp //= 10

Enter a integer value:123
It is not a armstrong number

Find the size of a Set in Python

Size of Set1: 456bytes Size of Set2: 456bytes Size of Set3: 200bytes

Iterate over a set in Python

test = set("hihello")

for val in test:
 print(val)

Set1 = {"A", 1, "B", 2, "C", 3}

check if the number is an Armstrong number or not

print("The number is armstrong number")

Set3 = {(1, "Lion"), (2, "Tiger"), (3, "Fox")}

Set2 = {"raj1", "Raju", "raj2", "Nikhil", "raj3", "Deepanshu"}

print("Size of Set1: " + str(Set1.__sizeof__()) + "bytes")
print("Size of Set2: " + str(Set2.__sizeof__()) + "bytes")
print("Size of Set3: " + str(Set3.__sizeof__()) + "bytes")

print("It is not a armstrong number")

for i in range(0, m):

print("\r")

Enter an integer:5

sum = 0
temp = n
while temp>0:

if sum == n:

In [2]: **import** sys

In [5]:

In []:

0

n = int(input("Enter the position of the string to remove"))

print ("The string after removal of i'th character : " + new_str)

Write a function called show_stars(rows). If rows are 5, it should print the following: * **

print(i, end=' ')

The number is a palindrome!

8 9 n_6 = int(input())
List.append(n_6)

Enter no of array elements :5

size = len(newList)
temp_1 = newList[0]

return newList

for i in range(n_4):
 c = int(input())
 newList.append(c)
print(swapList(newList))

Enter an integer :4

In [79]: n_3 = int(input("Enter number:"))

dig = n_3 %10
 rev = rev*10+dig
 n_3 = n_3//10
if(temp == rev):

newList[0] = newList[size - 1]
newList[size - 1] = temp_1

n_4 = int(input("Enter an integer :"))

List = []

5 6 1

Python program to swap two elements in a list

a.sort()

In [77]: List = []

Out[77]:

len(List)

a.append(b)

Enter element:12 Enter element:124 Enter element:15 Enter element:12

a.sort()

first_str = string[:half]
second_str = string[half:]

first_str = string[:half]
second_str = string[half+1:]

if first_str == second_str[::-1]:

print(string, 'string is symmertical')

print(string, 'string is palindrome')

n=int(input("Enter number of elements:"))

print("The smallest element is:",a[n-(n-1)])
print("Second smallest element is:",a[n-(n-2)])

n=int(input("Enter number of elements:"))

print("First largest element is:",a[n-1])
print("Second largest element is:",a[n-2])

n_5 = int(input("Enter no of array elements :"))

list[pos1], list[pos2] = list[pos2], list[pos1]

n_5 = int(input("Enter no of array elements :"))

Python program to incherchange first and last elements in a list

Write a program to check if the given number is a palindrome number

print("The number is a palindrome!")

print("The number isn't a palindrome!")

n_1 = int(input("Enter no. of list elements"))

Iterate the given list of numbers and print only those numbers which are divisible by 5

Write a program to remove characters from a string starting from zero up to n and return a new string.

print(swapPositions(List, pos1-1, pos2-1))

b=int(input("Enter element:"))

b=int(input("Enter element:"))

print(string, 'string is not symmertical')

print(string, 'string is not palindrome')

if len(string) % 2 == 0:

1 = [] for i in s:

else:

else:

else:

In [73]: a=[]

In [74]: a=[]

In [71]: string = str(input("Enter a string value :"))

Enter a string value :hi this is python

print ("The original string is : " + test_str)

z = str(input("Which character you want to remove ?"))

print ("The string after removal of i'th character(works) : " + new_str)

The string after removal of i'th character(works) : GeksForGeeks

Python program to check whether the string is Symmetrical or Palindrome

print(np.add(A,B))