

```
In [3]: l = [3,4,5,6,7,7]
len(l)

Out[3]: 6

In [4]: print("this is my print")

this is my print

In [5]: type(l)

Out[5]: list

In [6]: def test():
pass

In [7]: test()

In [8]: def test1():
print("this is my first fun")

In [9]: test1()

this is my first fun

In [10]: def sudh():
print("this is my own function")

In [11]: sudh()

this is my own function

In [12]: sudh()

this is my own function

In [13]: sudh()

this is my own function

In [14]: def test2():
print(1+2)

In [15]: test2()

3

In [16]: def test3(a,b):
print(a+b)

In [17]: test3(2,4)

6

In [18]: test3(10,40)

50

In [19]: test3(56,34)

90

In [20]: test3("sudh" , "kumar")

sudhkumar

In [24]: test3(4 , "sudh")

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TypeError                                Traceback (most recent call last)
<ipython-input-24-b6d04cbb8b7a> in <module>
----> 1 test3(4 , "sudh")

<ipython-input-17-3a1467188027> in test3(a, b)
      1 def test3(a,b):
----> 2     print(a+b)
TypeError: unsupported operand type(s) for +: 'int' and 'str'

In [1]: def test4(a,b):
if type(a) != str :
    print(str(a) + b )
else :
    print(a+ b )

In [4]: test4(4 , "sudh") + "kumar"

4sudh
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TypeError                                Traceback (most recent call last)
<ipython-input-4-d6d82e04eb5b> in <module>
----> 1 test4(4 , "sudh") + "kumar"
TypeError: unsupported operand type(s) for +: 'NoneType' and 'str'

In [23]: type(test4(4 , "sudh") )

4sudh
Out[23]: NoneType

In [24]: def test5(a,b) :
if type(a) != str:
    return str(a) + b
else :
    return a+b

In [25]: type(test5(4 , "sudh"))

str

In [26]: test5(4 , "sudh") + "kumar"

Out[26]: '4sudhkumar'

In [27]: def test5(a,b):
if type(a) != str:
    return str(a)+b
else:
    return a+b

In [28]: test5(5 , "sudh")

Out[28]: '5sudh'

In [5]: def test6(a, b , c ):
return a+2 , b+3 , c+4 , a+b*c

In [6]: n = test6(3,4,6)

In [7]: n

Out[7]: (5, 7, 10, 13)

In [8]: a = 10
b = 4
c = "sudh"
d = 56.45

In [9]: a,b,c,d = 10 , 4 , "sudh" ,56.45

In [10]: n

Out[10]: (5, 7, 10, 13)

In [34]: x , y , z , w = test6(3,4,5)

In [35]: x

Out[35]: 5

In [36]: y

Out[36]: 7

In [37]: z

Out[37]: 9

In [38]: w

Out[38]: 12

In [39]: _ , _ , _ , b = test6(3,4,5)

In [40]: b**4

Out[40]: 20736

In [41]: _

Out[41]: 9

In [11]: def test7(x,y):
return x*y , x , x**4 , x *y

In [17]: test7(3,4)[2]

Out[17]: 81

In [15]: test7(3,4)[2]/3

Out[15]: 27.0

In [44]: _ , _ , t , _ = test7(3,4)

In [45]: t

Out[45]: 81

In [46]: def test7(b,v,c):
d = b*v*c
f = b+v*c+d
return d , f

In [47]: a ,b = test7(4,5,6)

In [48]: a

Out[48]: 120

In [49]: b

Out[49]: 135

In [50]: test7(4,5,6)

Out[50]: (120, 135)

In [10]: l = ["sudh" , 3,4,5,6,"kumar" , 'a ' , 'b' , 56.45]

In [19]: c = 0
for i in l:
    if type(i) == str:
        c +=1
print(c)

4

In [20]: l1 = ["sudh" , 3,4,5,6,"kumar" , 'a ' , 'b' , 56.45 , 56,"df" , "dfs"]

In [23]: def test8(l1):
"""this is my function where it will try to return number of string var available inside list """
c = 0
for i in l1:
    if type(i) == str:
        c += 1
return c

In [24]: test8(l1)

Out[24]: 4

In [56]: test8(l1)

Out[56]: 6

In [57]: l2 = ["sudh" , 3,4,5,6,"kumar" , 'a ' , 'b' , 56,"df" , "dfs"]

In [58]: type(test8(l2))

Out[58]: int

In [32]: def test9(b = 10,c = 6 ) :
return c

In [33]: test9(b,c)

Out[33]: 4

In [27]: _ , v = test9(4)

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TypeError                                Traceback (most recent call last)
<ipython-input-27-c23f752d7d08> in <module>
----> 1 _ , v = test9(4)
TypeError: cannot unpack non-iterable int object

In [28]: test9("sudh")

Out[28]: 6

In [29]: def test9(b=10,c=6):
return b,c

In [30]: v

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NameError                                Traceback (most recent call last)
<ipython-input-30-d0aa4306ac53> in <module>
----> 1 v
NameError: name 'v' is not defined

In [64]: def test10(a,b,c,n,v):
return "this is my fun"

In [104]: test10(2,3,4,5,6 , 7,8)

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TypeError                                Traceback (most recent call last)
<ipython-input-104-680dc47a1792> in <module>
----> 1 test10(2,3,4,5,6 , 7,8)
TypeError: test10() takes 5 positional arguments but 7 were given

In [35]: def test11(*args) :
return args

In [36]: test11(3,4,5,6,7,8,9,4,6,2,5)

Out[36]: (3, 4, 5, 6, 7, 8, 9, 4, 6, 2, 5)

In [ ]: test11(3,4,5,6)

In [107]: test11(3,"sudh")

Out[107]: (3, 'sudh')

In [110]: test11(4,5,6,7,8,9,"sdfsadf" , "dfs")

Out[110]: (4, 5, 6, 7, 8, 9, 'sdfsadf', 'dfs')

In [43]: def test12(*args) :
con = ""
for i in args:
    if type(i) == str:
        con = con + i
return con

In [44]: test12(4,5,6,7,8,9,"sdfsadf" , "safdas" , "kumar " , [3,4,5,6,7])

Out[44]: 'sdfsadfsafdiskumar '

In [45]: test12("sudh" ,"kumar")

Out[45]: 'sudhkumar'

In [116]: test12("sudh" ,"kumar" , "ineuron")

Out[116]: 'sudhkumarineuron'

In [117]: test12("sudh" ,"kumar" , "ineuron" , 3,4,5,6,6)

Out[117]: 'sudhkumarineuron'

In [53]: def test12("sudh") :
con = ""
for i in sudh:
    if type(i) == str:
        con = con + i
return con

In [54]: test12("sudh" ,"kumar" , "ineuron" , 3,4,5,6,6)

Out[54]: 'sudhkumarineuron'

In [55]: test12( 2,4,5,[1,3,5,'test'])

Out[55]: ''

In [122]: def test13(*args , a , b , c ,d ) :
return args , a , b , c , d

In [124]: test13(3,4,5,6,6,7 , a = 45 , b = 56 , c = 23 , d =12 )

Out[124]: ((3, 4, 5, 6, 6, 7), 45, 56, 23, 12)

In [125]: def test14(**kwargs) :

return kwargs

In [129]: test14(a = 34,b = 56, c = 67 , sudh = [3,4,5,6,6])

Out[129]: {'a': 34, 'b': 56, 'c': 67, 'sudh': [3, 4, 5, 6, 6]}

In [130]: sudh = "f sdf"

In [131]: sudh

Out[131]: 'f sdf'

In [56]: def test14(**sudh) :

return sudh

In [59]: test14(34 = 34,b = 56, c = 67 , sudh = [3,4,5,6,6])

File "
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