

## Function part 2 eng

February 7, 2023

```
[3]: def test(a,b,c,d,e):  
      pass
```

```
[6]: test(1,2,3,4,5,6,7)
```

```
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TypeError                                Traceback (most recent call last)  
Cell In[6], line 1  
----> 1 test(1,2,3,4,5,6,7)  
  
TypeError: test() takes 5 positional arguments but 7 were given
```

```
[7]: def test1(*args):  
      return args
```

```
[8]: test1(2)
```

```
[8]: (2,)
```

```
[9]: test1(1,2,3,4,5,5)
```

```
[9]: (1, 2, 3, 4, 5, 5)
```

```
[10]: test1("sudh" , [1,2,3,4,5] , (1,2,3,4,5))
```

```
[10]: ('sudh', [1, 2, 3, 4, 5], (1, 2, 3, 4, 5))
```

```
[11]: def test2(*sudh):  
      return sudh
```

```
[12]: test2(3,4,5,6)
```

```
[12]: (3, 4, 5, 6)
```

```
[13]: def test3(*args , a ):  
      return args ,a
```

```
[14]: test3(3)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[14], line 1  
----> 1 test3(3)  
  
TypeError: test3() missing 1 required keyword-only argument: 'a'
```

```
[15]: test3(1,2,3,4 ,a = "sudh" )
```

```
[15]: ((1, 2, 3, 4), 'sudh')
```

```
[16]: def test4(*args):  
      l = []  
      for i in args:  
          if type(i) == list :  
              l.append(i)  
  
      return l
```

```
[19]: test4(1,2,3,[1,2,3,4,4] , (1,2,3,4,4) , "sudh" , [4,5,6] , [6,7,8])
```

```
[19]: [[1, 2, 3, 4, 4], [4, 5, 6], [6, 7, 8]]
```

```
[20]: def test5(**kwargs):  
      return kwargs
```

```
[21]: test5()
```

```
[21]: {}
```

```
[22]: type(test5())
```

```
[22]: dict
```

```
[23]: test5(a = 34 , b = 23 , c = [1,2,3,4] , d = ("sudh" , "pwskills"))
```

```
[23]: {'a': 34, 'b': 23, 'c': [1, 2, 3, 4], 'd': ('sudh', 'pwskills')}
```

```
[24]: def test6(**kwargs):  
      for i in kwargs.keys():  
          if type(kwargs[i] ) == list :  
              return i , kwargs[i]
```

```
[26]: test6(a = 34 , b = 23 , c = [1,2,3,4] , d = ("sudh" , "pwskills"))
```

```
[26]: ('c', [1, 2, 3, 4])
```

```
[27]: def test7(*args , **kwargs) :  
      return args , kwargs
```

```
[28]: test7(2,3,4,5,a= 34, b = 98)
```

```
[28]: ((2, 3, 4, 5), {'a': 34, 'b': 98})
```

```
[ ]:
```