```python
print("dk")
```

```
dk
```

```python
l=[3663,568,99]
```

```python
l
```

```
[3663, 568, 99]
```

```python
len(l)
```

```
3
```

```python
def test():
    pass
```

```python
def test1():
    print("this is my first function")
```

```python
test1()
```

```
this is my first function
```

```python
test1()+"deepak"
```

```
this is my first function
```

```
---------------------------------------------------------------------------
-----
TypeError                                 Traceback (most recent call
last)
Cell In[9], line 1
----> 1 test1()+"deepak"

TypeError: unsupported operand type(s) for +: 'NoneType' and 'str'
```

```python
def test2():
    return "this is my first return"
```

```python
test2()+" deepak"
```

```
'this is my first return deepak'
```

```python
def test3():
    return "dep" ,66, 9898, [66,7,9]
```

```python
test3()
```

```
('dep', 66, 9898, [66, 7, 9])
```

```python
a,b,c,d=test3()
```

```python
a
```

```
'dep'

b

66

c

9898

d

[66, 7, 9]

a=1
b=2

a,b=1,3

a

1

b

3

def test4():
    a=5+7/7
    return a

test4()

6.0

def test5(a,b,c):
    d=a+b/c
    return d

test5(2,5,8)

2.625

def test6(a,b):
    return a+b

test6(3,6)

9

test6("deep", " kumar")

'deep kumar'

l=[1,2,3,4,"deep", "kumar", [5,6,7,8,9]]
```

```
l
```

```
[1, 2, 3, 4, 'deep', 'kumar', [5, 6, 7, 8, 9]]
```

```python
l1=[]
for i in l:
    if type(i)==int or type(i)==float:
        l1.append(i)
```

```
l1
```

```
[1, 2, 3, 4]
```

```python
def test7(l):
    l1=[]
    for i in l:
        if type(i)==int or type(i)==float:
            l1.append(i)
    return l1
```

```
test7(l)
```

```
[1, 2, 3, 4]
```

```
l
```

```
[1, 2, 3, 4, 'deep', 'kumar', [5, 6, 7, 8, 9]]
```

```python
def test8(a):
    l=[]
    for i in a:
        if type(i)==list:
            for j in i:
                l.append(j)
        else:
            if type(i)==int or type(i)==float:
                l.append(i)
    return l
```

```
test8(l)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```python
def test8(a):
    """this is my function to ectract num data list"""
    l=[]
    for i in a:
        if type(i)==list:
            for j in i:
                l.append(j)
        else:
            if type(i)==int or type(i)==float:
```

```
            l.append(i)
    return l

test9()
```

```
----------------------------------------------------------------
-----
NameError                                 Traceback (most recent call
last)
Cell In[53], line 1
----> 1 test9()

NameError: name 'test9' is not defined
```

```
def test10(a,b):
    return a+b
```

```
def test11(*args):
    return args
```

```
type(test11())
```

```
tuple
```

```
test11(1,2,3)
```

```
(1, 2, 3)
```

```
test11(1,2,3,4,5,"deep", "kumae", [1,3,4,5,7])
```

```
(1, 2, 3, 4, 5, 'deep', 'kumae', [1, 3, 4, 5, 7])
```

```
def test12(*deepak):
    return deepak
```

```
test12(2,34,5)
```

```
(2, 34, 5)
```

```
def test13(*args , a):
    return args , a
```

```
test13(1,2,3,4)
```

```
----------------------------------------------------------------
-----
TypeError                                 Traceback (most recent call
last)
Cell In[65], line 1
----> 1 test13(1,2,3,4)

TypeError: test13() missing 1 required keyword-only argument: 'a'
```

```
test13(1,2,3,4 ,a=7)

((1, 2, 3, 4), 7)

def test14(c,d,a=23, n=7):
    return a,b,c,d


test14(3,4)

(23, 3, 3, 4)

test14(2,5, a=7887)

(7887, 3, 2, 5)

def test15(**kwargs):
    return kwargs
```