```
def eliminate_digits_symbols(f):
    def process(string):
        new_str = ''
        for i in string:
            if i.isalpha():
                new_str = new_str + i
        else:
            f(new_str)
    return process
@eliminate_digits_symbols
def showstring(s):
    print(s)
showstring('python3')
   python
showstring('sdlflsdj405943805340**))*)')
   sdlflsdj
```

decorator

define parent function with parameter

define nested function and return nested function name from parent function do validations in nested function and then call parent parameter function

```
def showlist(lst):
    for i in 1st:
        print(i,end=' ')
showlist([1,4,3,2,'a',94,3,'c'])
   1 4 3 2 a 94 3 c
def filterint(f):
    def process(li):
        1 = []
        for i in li:
            if isinstance(i,int):
                1.append(i)
        else:
            f(1)
    return process
@filterint
                   # showlist = filterint(showlist)
def showlist(lst):
    for i in 1st:
        print(i,end=' ')
showlist([3,4,2,'python','IPL','transporter',12])
   3 4 2 12
def filter_prime(f):
    def process(li):
```

```
1 = []
        for num in li:
            for j in range(2,num):
                 if num%j == 0:
                     break
            else:
                 1.append(num)
        else:
            f(1)
    return process
@filter_prime
def showlist(lst):
    for i in 1st:
        print(i,end=' ')
showlist([11,26,43,64,71,101,24,32])
def filter_upper(f):
    def process(string):
        new_string = ''
        for i in string:
            if i.isupper():
                 new_string+=i
        else:
            f(new string)
    return process
@filter_upper
def showstring(s):
    print(s)
showstring('Good Afternoon')
   GA
def eliminate_duplicates(f):
    def process(string):
        new_string = ''
        for i in string:
            if i not in new string:
                 new string += i
        else:
            f(new_string)
    return process
@eliminate_duplicates
def showstring(s):
    print(s)
showstring('good afternoon')
   god aftern
def showintvalues(*a):
    for i in a:
        print(i,end=' ')
showintvalues(4,3,2,8,7,5,6,9,10,'hyderabad','coder','rider')
   4 3 2 8 7 5 6 9 10 hyderabad coder rider
```

```
def filterintvalues(f):
    def process(*x):
        1 = []
        for i in x:
            if isinstance(i,int):
                1.append(i)
        else:
            f(*1)
    return process
@filterintvalues
def showintvalues(*a):
    for i in a:
        print(i,end=' ')
showintvalues(4,3,2,5,4,3,2,'python','rambo','avatar')
   4 3 2 5 4 3 2
i = 1,2,3,4,5,6,7,8,9,10
# 1-2-3-4-5-6-7-8-9-10
print(*i,sep='-')
   1-2-3-4-5-6-7-8-9-10
def filterintvalues(f):
    def process(*x):
        f(*[i for i in x if isinstance(i,int)])
    return process
@filterintvalues
def showintvalues(*a):
    for i in a:
        print(i,end=' ')
showintvalues(4,3,2,5,4,3,2,'python','rambo','avatar')
   4 3 2 5 4 3 2
def filternames(f):
    pass
@filternames
def shownames(*names):
    for name in names:
        print(name)
def reverseword(f):
    pass
@reverseword
def showwords(*words):
    for word in words:
        print(word)
def filterintvalues(f):
    pass
@filterintvalues
def totalint(*i):
    total = 0
    for value in i:
        total = total + value
        nnin+/'cum of int values .! totall
```

princt sum or inc values . , cocai,

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