

```
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)
```

Show string  $\Rightarrow$  process

showstring( ) → ① procs  
↳ showstring

```
def eliminate_digits_symbols(f):  
    def process(string):  
        new_str = ''  
        for i in string:  
            if i.isalpha():  
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        else:  
            f(new_str)  
    return process
```

```
@eliminate_digits_symbols  
def showstring(s):  
    print(s)
```

Showstring → nested function

Showstring() → nested function  
↳ showstring.

```
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 → nested function  
Showstring() → nested function (filter validations)  
↳ showstring.

```
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)
```

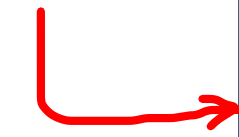
```
showstring('Good Afternoon')
```

```
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')
```

filter\_upper



```
def process(string):  
    new_string = ''  
    for i in string:  
        if i.isupper():  
            new_string+=i  
        else:  
            f(new_string)  
    return process
```



```
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')
```

filter\_upper



```
def process(string):  
    new_string = ''  
    for i in string:  
        if i.isupper():  
            new_string+=i  
        else:  
            f(new_string)  
    return process
```

showstring



```
print(s)
```

```
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')
```

filter\_upper



```
def process(string):  
    new_string = ''  
    for i in string:  
        if i.isupper():  
            new_string+=i  
    else:  
        f(new_string)  
    return process
```

showstring



```
print(s)
```

f

showstring = filter\_upper(showstring)

```
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')

↳ process call

filter\_upper



```
def process(string):
    new_string = ''
    for i in string:
        if i.isupper():
            new_string+=i
        else:
            f(new_string)
    return process
```

showstring



print(s)



showstring = filter\_upper(showstring)