```
def filter_string(f):
  def process(x):
    if isinstance(x,str):
      return f(x) # call MakeUpper function, if x is s
    else:
      return 'Invalid data type' # for other than str
  return process # return process function from filter_s

@filter_string # MakeUpper = filter_string(MakeUpper)

def makelower(s):
  return s.lower()

def MakeUpper(s):
  return s.upper()


makelower('HELLO')
```

```
'hello'
```

```
MakeUpper('venkat')
```

```
'VENKAT'
```

```
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
```

```
def showlist(lst):
  for i in lst:
    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):
    l = []
    for i in li:
      if isinstance(i,int):
        l.append(i)
    else:
      f(l)
  return process


@filterint
def showlist(lst):
  for i in lst:
    print(i,end=' ')


showlist([3,4,2,'python','IPL','transporter',12])
```

```
3 4 2 12
```

```
def filter_prime(f):
  def process(li):
    l = []
    for num in li:
      for j in range(2,num):
        if num%j == 0:
          break
      else:
        l.append(num)
    else:
      f(l)
  return process



@filter_prime
def showlist(lst):
  for i in lst:
    print(i,end=' ')


showlist([11,26,43,64,71,101,24,32])
```

```
 11 43 71 101
```


✓ 0s completed at 7:28 PM