```
def parent(x):
  def chaild(y):
    print(x+y)
  return chaild

a = parent(10)
a(5)
```

```
15
```

```
a(20)
```

```
30
```

```
a(100)
```

```
110
```

```
def register(f):
  def chaild(x):
    f(x)
  return chaild

def square(i):
  print(i**2)

sq = register(square)

sq(10)
```

```
100
```

```
sq(15)
```

```
225
```

```
sq(12)
```

```
144
```

```
square(12)
```

```
144
```

```
square('python')
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-13-dfd7f298bf20> in <module>
----> 1 square('python')

<ipython-input-7-7258fdb7b0a9> in square(i)
      1 def square(i):
----> 2   print(i**2)

TypeError: unsupported operand type(s) for ** or pow(): 'str' and 'int'
```

SEARCH STACK OVERFLOW

```
def register(f):
  def chaild(x):
    f(x)
  return chaild

def square(i):
  if isinstance(i,int):
    print(i**2)
  else:
    print('Invalid datatype')

def cube(j):
  if isinstance(j,int):
    print(j**3)
  else:
    print('Invalid datatype')

square('fdds')
```

```
Invalid datatype
```

```
cube('adsfdas')
```

```
Invalid datatype
```

```
def register(f):
  def chaild(x):
    if isinstance(x,int):
      f(x)
    else:
      print('Invalid datatype')
  return chaild

def square(i):
  print(i**2)

def cube(j):
```

```
    print(j**3)

sq = register(square)
cb = register(cube)

sq('fsdafds')
```

```
    Invalid datatype
```

```
def register(f):
  def validate(x):
    if isinstance(x,int):
      f(x)
    else:
      print('Invalid datatype')
  return validate

def square(i):
  print(i**2)

def cube(j):
  print(j**3)

sq = register(square)

sq(10)
```

```
    100
```

```
sq(12.43)
```

```
    Invalid datatype
```

```
def showintvalues(l):
  for i in l:
    print(i,end=' ')

showintvalues([1,10.45,'hello',65.98])
```

```
    1 10.45 hello 65.98
```

```
def filter_int_values(f):
  def validate(lst):
    li = []
    for i in lst:
      if isinstance(i,int):
```

```
        li.append(i)
    f(li)
  return validate

def showintvalues(l):
  for i in l:
    print(i,end=' ')

sv = filter_int_values(showintvalues)

sv([1,10.45,'hello',65.98,3,20])
```

```
1 3 20
```

```
def iseven(x):
  if x % 2 == 0:
    return True
  else:
    return False

print(iseven(100))
```

```
True
```

```
print(iseven(3001))
```

```
False
```

```
print(iseven('adfsdla'))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-41-61e6a39e701f> in <module>
----> 1 print(iseven('adfsdla'))

<ipython-input-38-fda60a75a135> in iseven(x)
      1 def iseven(x):
----> 2   if x % 2 == 0:
      3     return True
      4   else:
      5     return False

TypeError: not all arguments converted during string formatting
```

SEARCH STACK OVERFLOW

```
def filterint(f):
  def validate(i):
    if isinstance(i,int):
      f(i)
```

```
      else:
        print('Invalid datatype')
        return False
    return validate

  def iseven(x):
    if x % 2 == 0:
      return True
    else:
      return False

  even = filterint(iseven)
  even('dfsdal')
```

```
Invalid datatype
False
```

```
  def filterint(f):
    def validate(i):
      if isinstance(i,int):
        f(i)
      else:
        print('Invalid datatype')
        return False
    return validate

  def iseven(x):
    if x % 2 == 0:
      return True
    else:
      return False

  iseven = filterint(iseven)
  print(iseven(12.234))
```

```
Invalid datatype
False
```

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