



Programación. Python

Excepciones

```
f = open('no_existe.txt', 'r')
```

FileNotFoundError Traceback (most recent call last)

<ipython-input-1-18c7cb3bfc28> in <module>

----> 1 f = open('no_existe.txt', 'r')

FileNotFoundError: [Errno 2] No such file or directory: 'no_existe.txt'

```
l = range(10)
```

```
l[20]
```

IndexError Traceback (most recent call last)

<ipython-input-2-9c946fa1f822> in <module>

1 l = range(10)

----> 2 l[20]

IndexError: range object index out of range

```
1/0
```

```
-----  
ZeroDivisionError                                Traceback (most recent call last)  
<ipython-input-3-9e1622b385b6> in <module>  
----> 1 1/0
```

```
ZeroDivisionError: division by zero
```

```
try:  
    1/0  
except:  
    print('Esa división no tiene futuro...')
```

```
Esa división no tiene futuro...
```

```
l = range(20, 25)
try:
    for i in range(10):
        print('accedo a {0}: {1}'.format(i, l[i]))
except:
    print('pero no puedo seguir!!')
```

```
accedo a 0: 20
accedo a 1: 21
accedo a 2: 22
accedo a 3: 23
accedo a 4: 24
pero no puedo seguir!!
```

```
try:  
    f = open('no_existe.txt', 'r')  
except:  
    print('Se ha producido un error, pero puedo continuar ejecutando!!')
```

Se ha producido un error, pero puedo continuar ejecutando!!

```
import math
def circle(radius):
    """
    Function that computes the surface of a circle
    """
    if radius >= 0:
        sur = math.pi * radius ** 2
    else:
        raise Exception('Radio negativo')
    return sur
```

```
circle(4)
```

```
50.26548245743669
```

```
circle(-4)
```

```
-----
Exception                                 Traceback (most recent call last)
<ipython-input-9-d9269ac22532> in <module>
----> 1 circle(-4)
```

```
<ipython-input-7-88aafa24af36> in circle(radius)
      7         sur = math.pi * radius ** 2
      8     else:
----> 9         raise Exception('Radio negativo')
     10     return sur
```

```
Exception: Radio negativo
```