Exception handling

Finally Keyword in Python

In [2]:
```python
try:
    k = 5//0
    print(k)

except ZeroDivisionError as e:
    print("Can't divide by zero",e)

finally:
    print('This is always executed')
```

```
Can't divide by zero integer division or modulo by zero
This is always executed
```

Raising Exception

In [3]:
```python
try:
    raise NameError("Hi there")
except NameError:
    print ("An exception")
    raise
```

```
An exception
```
```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[3], line 2
      1 try:
----> 2     raise NameError("Hi there")
      3 except NameError:
      4     print ("An exception")

NameError: Hi there
```

Try and Except Statement – Catching Exceptions

```
In [4]:  a = [1, 2, 3]
         try:
             print ("Second element = %d" %(a[1]))

             print ("Fourth element = %d" %(a[3]))

         except:
             print ("An error occurred")
```

```
Second element = 2
An error occurred
```

Catching Specific Exception

```
In [5]:  def fun(a):
             if a < 4:

                 b = a/(a-3)
             print("Value of b = ", b)

         try:
             fun(3)
             fun(5)
         except ZeroDivisionError:
             print("ZeroDivisionError Occurred and Handled")
         except NameError:
             print("NameError Occurred and Handled")
```

```
ZeroDivisionError Occurred and Handled
```