```
Last Login: Sat May 2 11:35:14 on ttys000
→ ~ ipython
Python 3.8.2 (default, Mar 11 2020, 00:29:50)
Type 'copyright', 'credits' or 'license' for more information
IPython 7.13.0 -- An enhanced Interactive Python. Type '?' for help.
In [1]: a = [1,2,3,4,5]
In [2]: a[9]
          Traceback (most recent call last)
IndexError
<ipython-input-2-044f1ccc0778> in <module>
----> 1 a[9]
IndexError: list index out of range
In [3]: try:
 ...: a[9]
  ...: else:
  ...: print("Failed")
 File "<ipython-input-3-0628cb82d226>", line 3
   else:
SyntaxError: invalid syntax
In [4]: try:
  ...: a[9]
  ...: except:
  ...: print("Failed")
  . . . :
Failed
In [5]: try:
  ...: 0/0
  ...: except:
  ...: print("Failed")
Failed
In [6]: 0/0
_____
ZeroDivisionError
                                Traceback (most recent call last)
<ipython-input-6-9ab73e148374> in <module>
---> 1 0/0
ZeroDivisionError: division by zero
In [7]: a[9]
IndexError
                                Traceback (most recent call last)
```

```
<ipython-input-7-044f1ccc0778> in <module>
----> 1 a[9]
IndexError: list index out of range
In [8]: try:
  ...: a[9]
  ...: except IndexError:
  ...: print("Failed")
  . . . :
Failed
In [9]: try:
  ...: 0/0
  ...: except IndexError:
  ...: print("Failed")
_____
ZeroDivisionError
                                  Traceback (most recent call last)
<ipython-input-9-83e741442e85> in <module>
    1 try:
3 except IndexError:
     4 print("Failed")
     5
ZeroDivisionError: division by zero
In [10]: a = [11,2,3,4]
In [11]: for i range(1,len(a)):
   ...: print(a[0]/a[i])
 File "<ipython-input-11-2f40d87b1c32>", line 1
   for i range(1,len(a)):
SyntaxError: invalid syntax
In [12]: for i in range(1,len(a)):
   ...: print(a[0]/a[i])
5.5
3.666666666666665
2.75
In [13]: a = [10,9,8,0]
In [14]: for i in range(1,len(a)):
   ...: print(a[0]/a[i])
1.111111111111111
```

```
ZeroDivisionError
                                        Traceback (most recent call last)
<ipython-input-14-0f18dfffefeb> in <module>
      1 for i in range(1, len(a)):
            print(a[0]/a[i])
      3
ZeroDivisionError: division by zero
In [15]: for i in range(1,len(a)):
             try:
    . . . :
                  print(a[0]/a[i])
             except ZeroDivisionError as e:
                  print(e)
    . . . :
1.111111111111111
1.25
division by zero
In [16]: a = [10,9,8,0,3,5]
In [17]: for i in range(1,len(a)):
            try:
                  print(a[0]/a[i])
            except ZeroDivisionError as e:
                  print(e)
    . . . :
1.111111111111111
division by zero
3.333333333333333
2.0
In [18]: a = []
In [19]: for i in range(1,len(a)):
             try:
                  print(a[0]/a[i])
             except ZeroDivisionError as e:
                  print(e)
    . . . :
In [20]: for i in range(1,5):
             try:
    . . . :
                  print(a[0]/a[i])
             except ZeroDivisionError as e:
                  print(e)
```

```
. . . :
```

1.375

```
IndexError
                                       Traceback (most recent call last)
<iputhon-input-20-c0854cdce576> in <module>
      1 for i in range(1,5):
          try:
                print(a[0]/a[i])
---> 3
          prınt(a[ʊ]/a[ı])
except ZeroDivisionError as e:
                print(e)
      5
IndexError: list index out of range
In [21]: for i in range(1,5):
            try:
   . . . :
                 print(a[0]/a[i])
    except ZeroDivisionError as e:
                 print(e)
    ...: except IndexError as i:
                 print(i)
    . . . :
list index out of range
In [22]: a = []
In [23]: for i in range(1,5):
    ...: try:
                 print(a[0]/a[i])
            except:
    . . . :
                 print("error")
error
error
error
error
In [24]: a = [11, 0, 9, 8, 7]
In [25]: for i in range(1,5):
   ...: try:
    . . . :
                 print(a[0]/a[i])
           except:
               print("error")
error
1.2222222222223
```

1.5714285714285714

```
In [26]: for i in range(1,5):
    . . . :
             try:
                  print(a[0]/a[i])
    . . . :
             except ZeroDivisionError as e:
                  pass
             finally:
                  print(0)
    . . . :
    . . . :
0
1.2222222222223
0
1.375
1.5714285714285714
0
In [27]: for i in range(1,5):
    . . . :
             try:
                  print(a[0]/a[i])
             except ZeroDivisionError as e:
                  pass
             else:
                  print(0)
    . . . :
    . . . :
1.2222222222223
0
1.375
1.5714285714285714
0
In [28]: a = 9
In [29]: if a > 0:
            print("correct")
    ...: else:
             raise Exception ("You can not provide me ngative numbers")
    . . . :
correct
In [30]: a = -9
In [31]: if a > 0:
             print("correct")
    ...: else:
             raise Exception ("You can not provide me ngative numbers")
    . . . :
```

```
Traceback (most recent call last)
Exception
<ipython-input-31-c946f1302738> in <module>
            print("correct")
      3 else:
            raise Exception("You can not provide me ngative numbers")
      5
Exception: You can not provide me ngative numbers
In [32]: for i in range(1,5):
    . . . :
            try:
                 print(a[0]/a[i])
    . . . :
            except ZeroDivisionError as e:
                 print(e)
            else:
                 print(0)
TypeError
                                       Traceback (most recent call last)
<ipython-input-32-35a16e4f8622> in <module>
      1 for i in range(1,5):
      2
          try:
---> 3
                print(a[0]/a[i])
            except ZeroDivisionError as e:
                print(e)
      5
TypeError: 'int' object is not subscriptable
In [33]: a = [11, 0,0,9,8,7]
In [34]: for i in range(1,5):
    . . . :
            try:
                 print(a[0]/a[i])
            except ZeroDivisionError as e:
                 print(e)
            else:
                 print(0)
    . . . :
division by zero
division by zero
1.2222222222223
1.375
In [35]: def work():
            print("Now it's fine")
    . . . :
```

```
In [36]: a = -9
In [37]: if a < 0:
   ...: raise Exception(work())
Now it's fine
Exception
                                  Traceback (most recent call last)
<ipython-input-37-27c1662ca7df> in <module>
     1 if a < 0:
---> 2 raise Exception(work())
     3
Exception: None
In [38]: def work():
   ...: print("Now it's fine")
   . . . :
          return 1
   . . . :
In [39]: if a < 0:
   ...: raise Exception(work())
   . . . :
Now it's fine
_____
Exception
                                  Traceback (most recent call last)
<ipython-input-39-27c1662ca7df> in <module>
    1 if a < 0:
---> 2 raise Exception(work())
Exception: 1
In [40]: if a < 0:
   ...: try:
               raise Exception(work())
         except Exception as e:
               print(e)
   . . . :
Now it's fine
In [41]:
```