

Exception Handling in Python

```
In [1]: a=5  
b=2  
print(a/b)  
print('bye')
```

```
2.5  
bye
```

```
In [2]: c=5  
d=0  
print(d/c)  
print('bye')
```

```
0.0  
bye
```

```
In [3]: c=5  
d=0  
print('bye')  
print(d/c)
```

```
bye  
0.0
```

```
In [4]: c=5  
d=0  
print('bye')  
print(c/d)
```

```
bye
```

```
-----  
ZeroDivisionError  
Cell In[4], line 4  
      2 d=0  
      3 print('bye')  
----> 4 print(c/d)
```

```
Traceback (most recent call last)
```

```
ZeroDivisionError: division by zero
```

```
In [5]: c=5  
d=0  
print(c/d)  
print('bye')
```

```
-----  
ZeroDivisionError  
Cell In[5], line 3  
      1 c=5  
      2 d=0  
----> 3 print(c/d)  
      4 print('bye')
```

```
Traceback (most recent call last)
```

```
ZeroDivisionError: division by zero
```

```
In [6]: c=3  
d=0
```

```
try:
    print(c/d)
except Exception:
    print('hey you cannot divide Number by Zero')
print('bye')
```

hey you cannot divide Number by Zero
bye

In [7]:

```
c=3
d=0
try:
    print(d/c)

Exception:
print('hey you cannot divide Number by zero')
```

Cell In[7], line 6
Exception:
SyntaxError: expected 'except' or 'finally' block

In [8]:

```
c=3
d=0
try:
    print(d/c)
except:
    print('hey you cannot divide Number by zero')
print('bye')
```

0.0
bye

In [9]:

```
c=3
d=3
try:
    print('resource open')
    print(c/d)
    print('resource closed')

except e:
    print('hey you cannot divide Number by zero',':',e)
```

resource open
1.0
resource closed

In [10]:

```
c=3
d=0
try:
    print('resource open')
    print(c/d)
    print('resource closed')
except e:
    print('hey you cannot divide Number by zero',':',e)
```

resource open

```

-----
ZeroDivisionError                                Traceback (most recent call last)
Cell In[10], line 5
    4     print('resource open')
----> 5     print(c/d)
    6     print('resource closed')

ZeroDivisionError: division by zero

```

During handling of the above exception, another exception occurred:

```

NameError                                     Traceback (most recent call last)
Cell In[10], line 7
    5     print(c/d)
    6     print('resource closed')
----> 7 except e:
    8     print('hey you cannot divide Number by zero',':',e)

NameError: name 'e' is not defined

```

```

In [11]: c=3
d=0
try:
    print('resource open')
    print(c/d)
    print('resource closed')

except as e:
    print('hey you cannot divide Number by zero',':',e)

```

```

Cell In[11], line 8
    except as e:
    ^
SyntaxError: invalid syntax

```

```

In [12]: c=3
d=0
try:
    print('resource open')
    print(c/d)
    print('resource closed')

except Exception as e:
    print('hey you cannot divide Number by zero',':',e)

```

```

resource open
hey you cannot divide Number by zero : division by zero

```

```

In [13]: c=3
d=0
try:
    print('resource open')
    print(c/d)

except Exception as e:
    print('hey you cannot divide Number by zero',':',e)
    print('resource closed')

```

```
resource open
hey you cannot divide Number by zero : division by zero
resource closed
```

```
In [14]: c=3
d=3
try:
    print('resource open')
    print(c/d)

except Exception as e:
    print('hey you cannot divide Number by zero',e)
    print('resource closed')
```

```
resource open
1.0
```

```
In [15]: c=3
d=3
try:
    print('resource open')
    print(c/d)

except Exception as e:
    print('hey you cannot divide Number by zero',e)
    print('resource closed')

finally:
    print('resource closed')
```

```
resource open
1.0
resource closed
```

```
In [ ]:
```