

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                                Traceback (most recent call last)  
Cell In[4], line 4  
      2 d=0  
      3 print('bye')  
----> 4 print(c/d)  
  
ZeroDivisionError: division by zero
```

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

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