

## ▼ syntax error

```
print('hello')
print('good')
print('afternoon')
for i in range(5):
    print(i)
```

File "<ipython-input-1-72ea389f1a2f>", line 5

```
    print(i)
      ^
```

IndentationError: expected an indented block

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## ▼ run-time error

```
print('hello')
print('good')
print('afternoon')
for i in range(5):
    print(j)
```

hello  
good  
afternoon

-----  
NameError Traceback (most recent call last)

<ipython-input-2-24a5c94bafad> in <cell line: 4>()

3 print('afternoon')

4 for i in range(5):

----> 5 print(j)

NameError: name 'j' is not defined

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## ▼ logical error

```
a = 100
b = 400
print(a, '+', b, '=', a-b)
```

100 + 400 = -300

```
print('Hello')
print('how are you')
print(x)
print('Thank you')
```

Hello  
how are you

-----  
NameError Traceback (most recent call last)

<ipython-input-5-7c82666ba505> in <cell line: 3>()

1 print('Hello')

2 print('how are you')

----> 3 print(x)

4 print('Thank you')

NameError: name 'x' is not defined

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```
try:
    print('Hello')
```

```

    print('how are you')
    print(x)
    print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)
print('continue to execte')

```

```

Hello
how are you
||||||| NAME_ERROR |||||||
name 'x' is not defined
<class 'NameError'>
continue to execte

```

```

try:
    print('Hello')
    print('how are you')
    100/0
    print(x)
    print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)
print('continue to execte')

```

```

Hello
how are you
-----
ZeroDivisionError                                Traceback (most recent call last)
<ipython-input-8-d8c51d65bb1e> in <cell line: 1>()
      2     print('Hello')
      3     print('how are you')
----> 4     100/0
      5     print(x)
      6     print('Thank you')

ZeroDivisionError: division by zero

```

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```

try:
    print('Hello')
    print('how are you')
    100/0
    print(x)
    print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)
except ZeroDivisionError as ze:
    print(' ZERO_DIVISION_ERROR '.center(40,'*'))
    print(ze)
    print(ze.__class__)
print('continue to execte')

```

```

Hello
how are you
***** ZERO_DIVISION_ERROR *****
division by zero
<class 'ZeroDivisionError'>
continue to execte

```

```

try:
    print('Hello')
    print('how are you')
    print('python'[100])
    100/0

```

```

print(x)
print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)
except ZeroDivisionError as ze:
    print(' ZERO_DIVISION_ERROR '.center(40,'*'))
    print(ze)
    print(ze.__class__)
print('continue to execte')

```

Hello  
how are you

```

-----
IndexError                                Traceback (most recent call last)
<ipython-input-11-6014ec6f47d2> in <cell line: 1>()
      2     print('Hello')
      3     print('how are you')
----> 4     print('python'[100])
      5     100/0
      6     print(x)

```

**IndexError:** string index out of range

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```

try:
    print('Hello')
    print('how are you')
    print('python'[100])
    100/0
    print(x)
    print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)
except ZeroDivisionError as ze:
    print(' ZERO_DIVISION_ERROR '.center(40,'*'))
    print(ze)
    print(ze.__class__)
except IndexError as ie:
    print(' INDEX_ERROR '.center(30,'@'))
    print(ie)
    print(ie.__class__)
print('continue to execte')

```

Hello  
how are you  
@@@@@@@@ INDEX\_ERROR @@@@@@@@@@  
string index out of range  
<class 'IndexError'>  
continue to execte

```

try:
    print('Hello')
    print('how are you')
    d = {'name':'venkat','mobile':9390018934}
    print(d['address'])
    print('python'[100])
    100/0
    print(x)
    print('Thank you')
except NameError as ne: # exception handler
    print(' NAME_ERROR '.center(30,'|'))
    print(ne)
    print(ne.__class__)

```

```
except ZeroDivisionError as ze:
    print(' ZERO_DIVISION_ERROR '.center(40, '*'))
    print(ze)
    print(ze.__class__)
except IndexError as ie:
    print(' INDEX_ERROR '.center(30, '@'))
    print(ie)
    print(ie.__class__)
except Exception as e:
    print(' EXCEPTION '.center(30, '-'))
    print(e)
    print(e.__class__)
print('continue to execte')
```

```
Hello
how are you
----- EXCEPTION -----
'address'
<class 'KeyError'>
continue to execte
```

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