

04-modules

June 10, 2022

```
[1]: math.pi
```

```
-----  
NameError                                Traceback (most recent call last)  
Input In [1], in <cell line: 1>()  
----> 1 math.pi  
  
NameError: name 'math' is not defined
```

```
[2]: import math
```

```
math.pi
```

```
[2]: 3.141592653589793
```

```
[3]: import math as m
```

```
m.pi
```

```
[3]: 3.141592653589793
```

```
[4]: from math import pi
```

```
pi
```

```
[4]: 3.141592653589793
```

```
[5]: import os
```

```
print(f"My current directory is: {os.getcwd()}")
```

```
os.chdir("../") # on linux '../' means go back one directory.
```

```
print(f"My new directory is {os.getcwd()}")
```

```
My current directory is: /home/chad/PythonCourse/py-04
```

```
My new directory is /home/chad/PythonCourse
```

```
[6]: os.chdir("/home/chad/PythonCourse/py-04")
os.listdir()
```

```
[6]: ['02-with_open.ipynb',
      '01-files.ipynb',
      'myFile.txt',
      '05-logs.ipynb',
      '.ipynb_checkpoints',
      'myLog.txt',
      '04-modules.ipynb',
      '00-try_and_except.ipynb']
```

```
[7]: with open("example.txt", "w") as file:
      file.write("This is my file")

os.listdir()
```

```
[7]: ['02-with_open.ipynb',
      '01-files.ipynb',
      'myFile.txt',
      '05-logs.ipynb',
      '.ipynb_checkpoints',
      'myLog.txt',
      '04-modules.ipynb',
      'example.txt',
      '00-try_and_except.ipynb']
```

```
[8]: os.remove("example.txt")
os.listdir()
```

```
[8]: ['02-with_open.ipynb',
      '01-files.ipynb',
      'myFile.txt',
      '05-logs.ipynb',
      '.ipynb_checkpoints',
      'myLog.txt',
      '04-modules.ipynb',
      '00-try_and_except.ipynb']
```

```
[9]: os.path.isfile("example.txt")
```

```
[9]: False
```

```
[10]: for root, dir, files in os.walk("."):
      print(files)
```

```
['02-with_open.ipynb', '01-files.ipynb', 'myFile.txt', '05-logs.ipynb',
'myLog.txt', '04-modules.ipynb', '00-try_and_except.ipynb']
```

```
['00-try_and_except-checkpoint.ipynb', 'myFile-checkpoint.txt', '04-modules-checkpoint.ipynb', '02-with_open-checkpoint.ipynb', '01-files-checkpoint.ipynb', 'example-checkpoint.txt', 'myLog-checkpoint.txt', '05-logs-checkpoint.ipynb']
```

1 datetime

```
[11]: #https://www.programiz.com/python-programming/datetime
import datetime

print(datetime.datetime.now())
print(datetime.date.today())
```

```
2022-06-10 02:42:12.772260
2022-06-10
```

2 platform

```
[12]: #https://www.pythonforbeginners.com/basics/
      ↪how-to-use-the-platform-module-in-python
import platform

print('uname:', platform.uname())

print()
print('system   :', platform.system())
print('node     :', platform.node())
print('release  :', platform.release())
print('version  :', platform.version())
print('processor:', platform.processor())
```

```
uname: uname_result(system='Linux', node='da48ef4e2cba',
release='5.4.0-113-generic', version='#127-Ubuntu SMP Wed May 18 14:30:56 UTC
2022', machine='x86_64')
```

```
system   : Linux
node     : da48ef4e2cba
release  : 5.4.0-113-generic
version  : #127-Ubuntu SMP Wed May 18 14:30:56 UTC 2022
processor: x86_64
```

3 random

```
[13]: #https://www.tutorialsteacher.com/python/random-module
import random

random.randint(1,10)
```

[13]: 5

[]:

[]: