

# Modules

### Import Python Modules

The Python **import** statement can be used to import Python modules from other files.

Modules can be imported in three different ways:

import module, from module import
functions, or from module import \*.
from module import \* is discouraged, as

it can lead to a cluttered local namespace and can make the namespace unclear.

## Module importing

In Python, you can import and use the content of another file using <code>import filename</code>, provided that it is in the same folder as the current file you are writing.

### Aliasing with 'as' keyword

In Python, the **as** keyword can be used to give an alternative name as an alias for a Python module or function.

```
# Three different ways to import
modules:
# First way
import module
module.function()

# Second way
from module import function
function()

# Third way
from module import *
function()
```

```
# Aliasing matplotlib.pyplot as plt
from matplotlib import pyplot as plt
plt.plot(x, y)

# Aliasing calendar as c
import calendar as c
print(c.month_name[1])
```

day=16)

13:48:05

16)

import datetime

feb 16 2019 =

### Date and Time in Python



Python provides a module named datetime to deal with dates and times.

It allows you to set date , time or both date and time using the date(), time() and datetime() functions respectively, after importing the datetime module.

# time\_13\_48min\_5sec = datetime.time(hour=13, minute=48, second=5) time\_13\_48min\_5sec = datetime.time(13, 48, 5) print(time\_13\_48min\_5sec) #13:48:05 timestamp= datetime.datetime(year=2019, month=2, day=16, hour=13, minute=48, second=5) timestamp = datetime.datetime(2019, 2, 16, 13, 48, 5) print (timestamp) #2019-01-02

datetime.date(year=2019, month=2,

print(feb\_16\_2019) #2019-02-16

feb 16 2019 = datetime.date(2019, 2,

# random.randint() and random.choice()

In Python, the random module offers methods to simulate non-deterministic behavior in selecting a random number from a range and choosing a random item from a list.

The randint() method provides a uniform random selection from a range of integers. The choice() method provides a uniform selection of a random element from a sequence.

```
# Returns a random integer N in a
given range, such that start <= N <=
end
# random.randint(start, end)
r1 = random.randint(0, 10)
print(r1) # Random integer where 0 <=
r1 <= 10

# Prints a random element from a
sequence
seq = ["a", "b", "c", "d", "e"]
r2 = random.choice(seq)
print(r2) # Random element in the
sequence</pre>
```