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Cheatsheets / Learn Python 3

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# **Modules**

#### **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.

```
import datetime
feb_16_2019 = datetime.date(year=2019,
month=2, day=16)
feb_{16}_{2019} = datetime.date(2019, 2, 16)
print(feb_16_2019) #2019-02-16
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 13:48:05
```

### 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.

```
# 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])
```

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#### **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.

```
# 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()
```

#### 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</pre>
```

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sequence

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### **Module importing**

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



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