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Modules in Python

- Group of instructions or functions
- Every python file itself is a Module
- We can use properties of one Module into another Module.

* python Supports 2 types of import Statements
  (i) Normal import (ii) from import

- Normal import—

Let take a file names & save as module1

```
a=10
def f1():
    print("I'm from module1")
```

Let take new file & Save as module2

```
import module1 as m1
print(m1.a)
m1.f1()
```

o/p:- 10
I'm from module1

Note:- Using modules we doesn't need to define variable again

- From import:

Let similarly take the module1 file

Now from import statement example can be seen below

Ex: from module1 import *

```
f1()
print(a)
```

o/p: I'm from module1

10

Note: * is used to importing the all functions & all variables.

Package:

* package is a folder which consists of many modules

Let construct / open new files in new folder namely package

1st file name as Module3

```
c=300
def f3():
    print("I'm Module3")
```

2nd file name as Module2

```
b=200
def f2():
    print("I'm Module2")
```

3rd file name as Module3

```
a=100
def f1():
    print("I'm Module1")
```

Let create another file outside the folder

```
import package.module1 as m1
import package.module2 as m2
import package.module3 as m3
print(m1.a)
print(m2.b)
print(m3.c)
m1.f1()
m2.f2()
m3.f3()
```

O/p: 100
200
300
I'm module 1
I'm module 2
I'm module 3.

Same Example by from import

```
from package.module1 import *
from package.module2 import *
from package.module3 import *

print(a)
print(b)
print(c)
f1()
f2()
f3()
```

o/p: 100
200
300
I'm module1
I'm module2
I'm module3