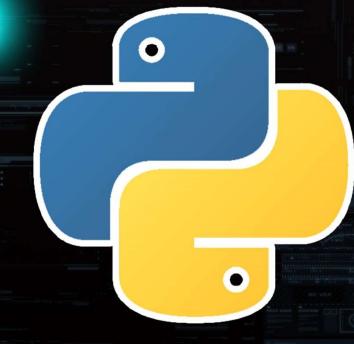


MODULES





Python - Modules

- A module is a file containing Python definitions and statements.
- A module can define functions, classes and variables.
- A module can also include runnable code.

```
# A simple module, calc.py

def add(x, y):
    return (x+y)

def subtract(x, y):
    return (x-y)
```



Module – *import* Statement

• it imports the module if the module is present in the search path.

```
# A simple module, calc.py
import calc

def add(x, y):
    return (x+y)

def subtract(x, y):
    return (x-y)
# importing module calc.py
import calc

print add(10, 2)

12
```



Module – from-import Statement

• It import specific attributes from a module

```
# module math
from math import sqrt, factorial

print sqrt(16)
print factorial(6)

4.0
720
```



Module – dir() function

- The dir() built-in function returns a sorted list of strings containing the names defined by a module.
- The list contains the names of all the modules, variables and functions that are defined in a module.

```
# Import built-in module random
import random
print dir(math)
```

