



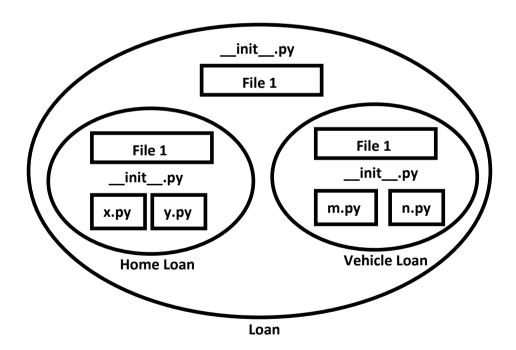


# Packages

It is an encapsulation mechanism to group related modules into a single unit. package is nothing but folder or directory which represents collection of Python modules.

Any folder or directory contains \_\_init\_\_.py file,is considered as a Python package.This file can be empty.

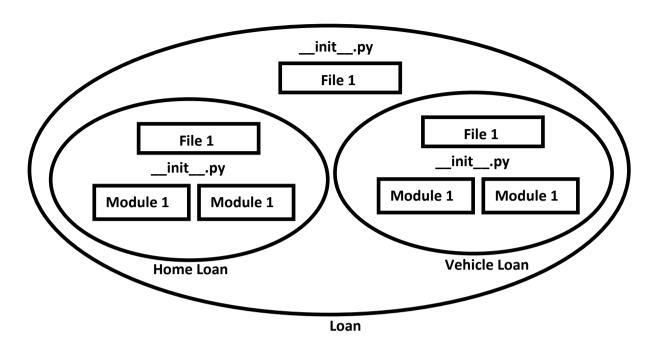
A package can contains sub packages also.











The main advantages of package statement are

- 1. We can resolve naming conflicts
- 2. We can identify our components uniquely
- 3. It improves modularity of the application

# Eg 1:

import pack1.module1
pack1.module1.f1()







# test.py (version-2):

|-durgasoft

|-module2.py |- init .py

\_\_init\_\_\_.py:

empty file

### module1.pv:

def f1():

print("Hello this is from module1 present in com")

# module2.py:

def f2():

print("Hello this is from module2 present in com.durgasoft")

# test.py:

- 1. from com.module1 import f1
- 2. from com.durgasoft.module2 import f2
- 3. f1()
- 4. f2()

5.

- 6. Output
- 7. D:\Python\_classes>py test.py
- 8. Hello this is from module1 present in com
- 9. Hello this is from module2 present in com.durgasoft

**Note:** Summary diagram of library, packages, modules which contains functions, classes and variables.







