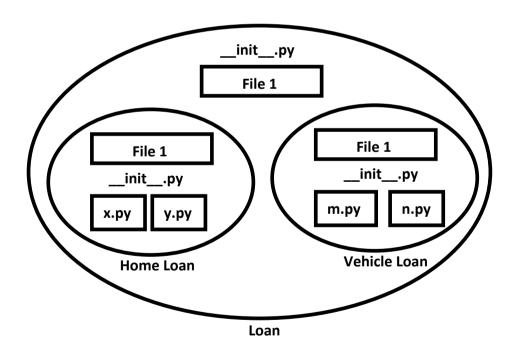


Packages

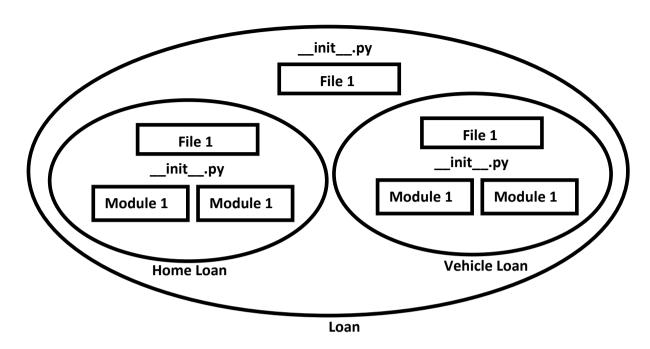
It is an encapsulation mechanism to group related modules into a single unit. package is nothing but folder or directory which represents collection of Python modules.

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:



```
test.py (version-2):
from pack1.module1 import f1
f1()
Eg 2:
D:\Python classes>
    |-test.py
    |-com
       |-module1.py
       |-__init__.py
          |-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
```

<u>Note:</u> Summary diagram of library, packages, modules which contains functions, classes and variables.

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



