





Learn Complete Python In Simple Way







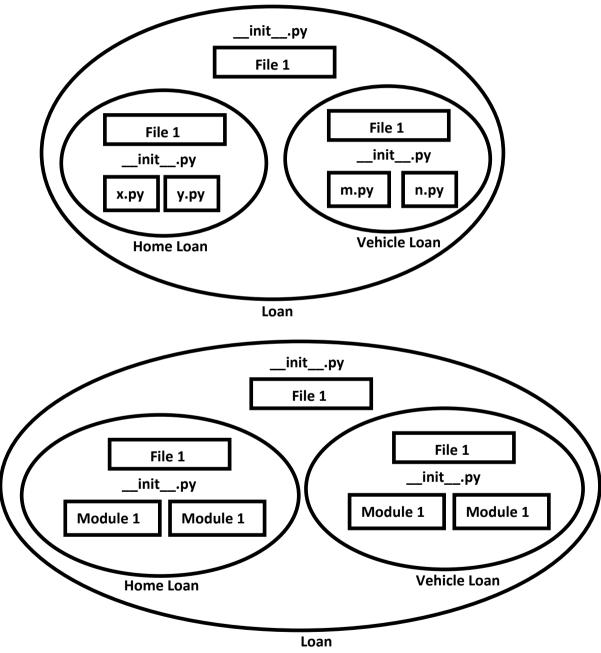
PACKAGES STUDY MATERIAL







- **S** It is an encapsulation mechanism to group related modules into a single unit.
- Spackage is nothing but folder or directory which represents collection of Python modules.
- Solution
 Any folder or directory contains __init__.py file,is considered as a Python package. This file can be empty.
- **S** 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







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3) It improves modularity of the application
Eg 1:
D:\Python classes>
    |-test.py
    |-pack1
       |-module1.py
       |-__init__.py
__init__.py:
empty file
module1.py:
def f1():
  print("Hello this is from module1 present in pack1")
test.py (version-1):
import pack1.module1
pack1.module1.f1()
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.py:
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()

Output

D:\Python_classes>py test.py

Hello this is from module1 present in com

Hello this is from module2 present in com.durgasoft

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

