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Packages
a package is a folder or directory, it contains one or more python modules.
       (or)
a python package is a collection of python modules
we can treat any package as a python package, that package should contain
__init__.py file.
some time a package contains sub package's also, we can treat that sub package as a
python sub-package, that sub package also should contains init .py file.
ex:
      C:\Python310\example\main_pack\addition.py
a = 10
b=20
def add(x,y):
   z=x+y
   print(z)
      C:\Python310\example\main_pack\subtraction.py
       _____
c = 30
d = 40
def sub(x,y):
   z=x-y
   print(z)
      C:\Python310\example\main_pack\__init__.py
       -----
empty file is created
       C:\Python310\example\main_pack\sub_pack\multiplication.py
       -----
e=50
f=60
def mul(x,y):
   z=x*y
   print(z)
       C:\Python310\example\main_pack\sub_pack\__init__.py
empty file is created
how to access the data from package from outside that package?
______
```

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we can access the data from package from outside of that package by using
following ways, they are
       1).normal importing package
       2).from importing a package
       3).from importing a package with *
normal importing package:
       import main_packagename
       import main packageaname.sub packagename
ex:
       C:\Python310\example\test.py
import main pack.addition
import main pack.subtraction
import main pack.sub pack.multiplication
print(main_pack.addition.a)
print(main_pack.addition.b)
main pack.addition.add(4,5)
print(main_pack.subtraction.c)
print(main_pack.subtraction.d)
main_pack.subtraction.sub(2,3)
print(main pack.sub pack.multiplication.e)
print(main_pack.sub_pack.multiplication.f)
main pack.sub pack.multiplication.mul(3,2)
output:
_____
10
20
9
30
40
-1
50
60
6
renameing a package
-----
       C:\Python310\example\test.py
       -----
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import main_pack.addition as ma
import main_pack.subtraction as ms

```
import main_pack.sub_pack.multiplication as msm
print(ma.a)
print(ma.b)
ma.add(4,5)
print(ms.c)
print(ms.d)
ms.sub(2,3)
print(msm.e)
print(msm.f)
msm.mul(3,2)
output:
-----
10
20
9
30
40
-1
50
60
6
from importing a package
-----
       C:\Python310\example\test.py
       _____
from main_pack.addition import a,b,add
from main pack.subtraction import c,d,sub
from main_pack.sub_pack.multiplication import e,f,mul
print(a)
print(b)
add(4,5)
print(c)
print(d)
sub(2,3)
print(e)
print(f)
mul(3,2)
output:
_____
10
20
9
30
40
-1
50
60
```

6

```
-----
      C:\Python310\example\test.py
      -----
from main pack.addition import *
from main_pack.subtraction import *
from main_pack.sub_pack.multiplication import *
print(a)
print(b)
add(4,5)
print(c)
print(d)
sub(2,3)
print(e)
print(f)
mul(3,2)
      output
      ----
10
20
9
30
40
-1
50
60
```