

Syntax-3: from module-name import identifier (variablename, function name or class)

This syntax is used for importing specific identifiers (variables, functions or classes) from module.

m4.py	Testmodule3.py
<pre>def fun1(): print("fun1 of m4") def fun2(): print("fun2 of m4") def fun3(): print("fun3 of m4")</pre>	<pre>from m4 import fun1 def fun4(): print("fun4 of current module") def fun2(): print("fun1 of current module") fun4() fun1() fun2()</pre>

Syntax-4

from module-name import <identifier-name> as <alias-name>

m4.py	Testmodule4.py
<pre>def fun1(): print("fun1 of m4") def fun2(): print("fun2 of m4") def fun3(): print("fun3 of m4")</pre>	<pre>from m4 import fun1 as f1 def fun4(): print("fun4 of current module") def fun1(): print("fun1 of current module") fun4() fun1() f1()</pre>

Syntax5: from module-name import *

This syntax import the entire module as part of current module

m4.py	Testmodule.py
<pre>def fun1(): print("fun1 of m4") def fun2(): print("fun2 of m4")</pre>	<pre>from m4 import * fun1()</pre>

def fun3(): print("fun3 of m4")	fun2() fun3()
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How to import executable module as reusable module?

Every executable program or executable module pvm assign one module name called `__main__`. This name is assigned to a variable `__name__`. The value `__name__` is given module name if this imported inside another module.

m5.py	Testmodule.py
def fun1(): print("fun1 of m5") def fun2(): print("fun2 of m5") def fun3(): print("fun3 of m5") print(__name__) if __name__=="__main__": fun1() fun2() fun3()	import m5 m5.fun1()

Package

What is package?

Package is collection of modules or python programs.

Package is nothing but a folder which contains python modules and packages.

These packages are two types

1. Predefined packages
2. User defined packages

Predefined packages

Existing packages or packages provided by python or third party vendors are called predefined packages. All predefined packages are called libraries

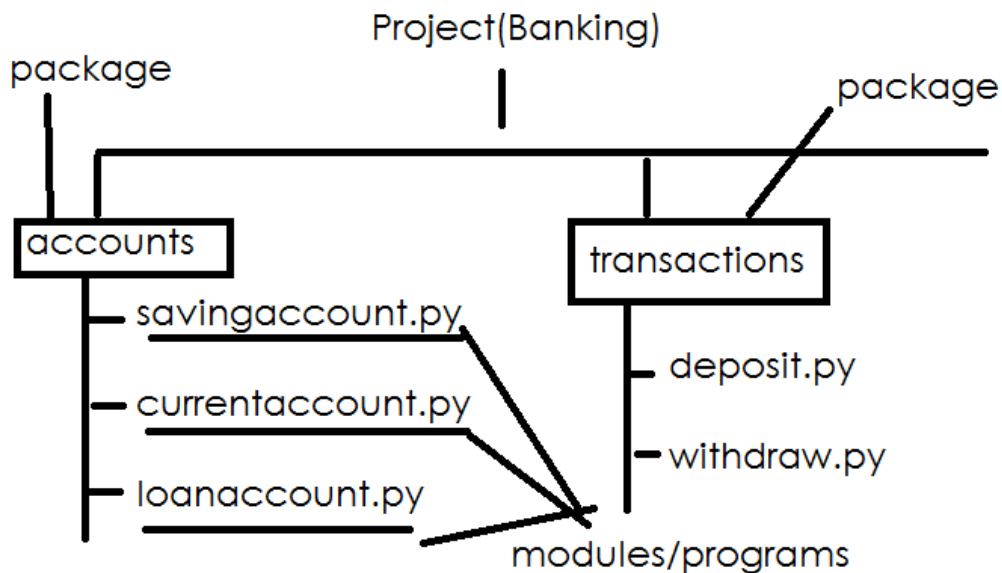
Python libraries are represented as

1. Module/Python Program
2. Collection of modules (Package)/Folder

Example: numpy, pandas, matplotlib, mysqlconnector

User defined packages

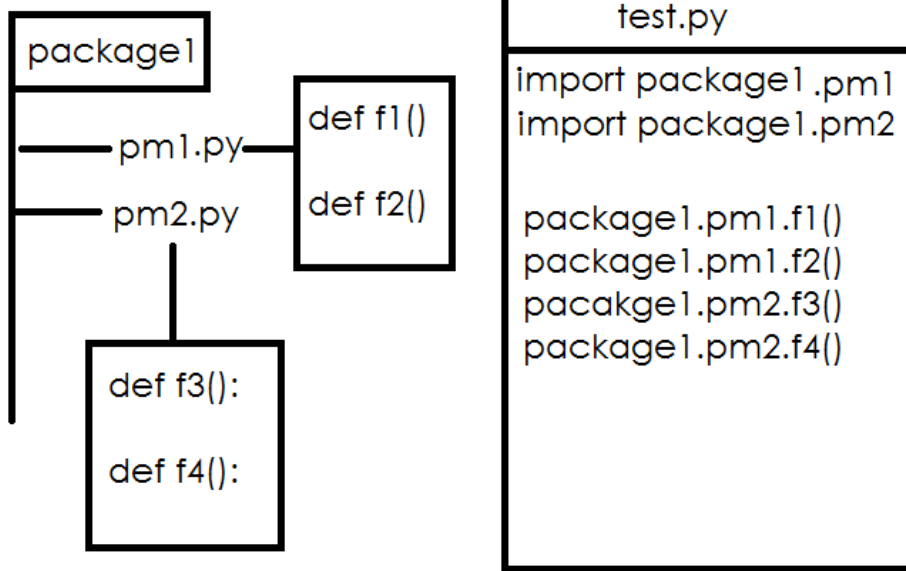
The packages created by programmer is called user defined packages



How to create a package?

IDLE does not provide any option for creating package

1. Open the location where package has to be created
2. Inside that location create folder



`__init__.py`