

## User defined modules two types

1. Reusable modules
2. Executable modules

### Executable module

The module which consists of executable statements is called executable module.

### Reusable module

This module does not have any executable statements is called reusable module. This module is having function definitions and class definitions. This module can be used in one program/module or more than one program/module.

### import statement

one module import another module using “import” keyword.  
Using the content of one module inside another module.

Syntax1: import <module-name>

Syntax2: import <module-name> as <alias-name>

Syntax3: from <module-name> import <identifier>,...

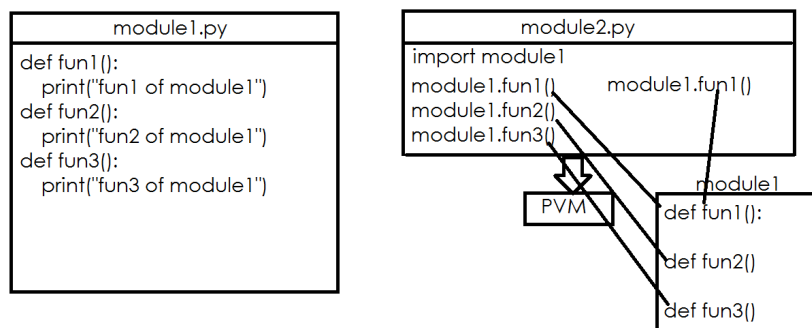
Syntax4: from <module-name> import \*

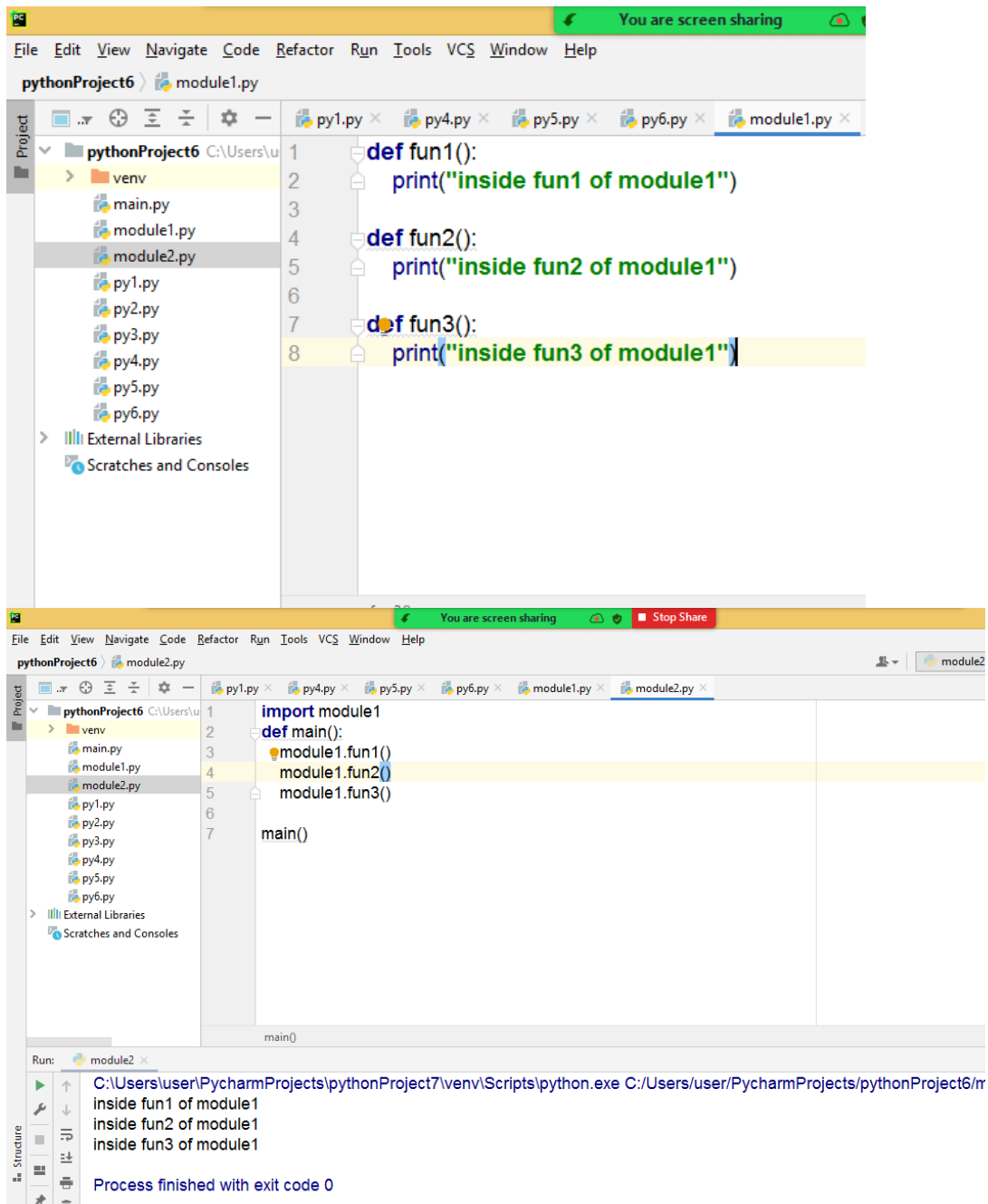
Syntax5: from <module-name> import <identifier> as <alias-name>

Syntax-1: import <module-name>

This syntax import the entire module

Import statement creates name space with module-name and load all the content

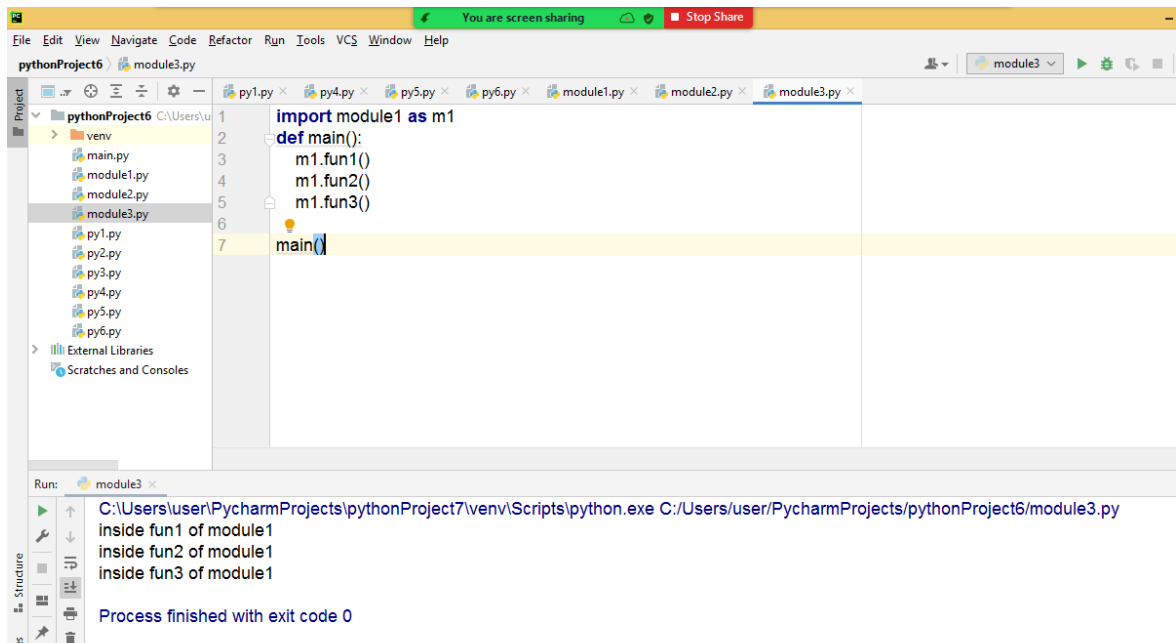




## Syntax2: `import <module-name> as <alias-name>`

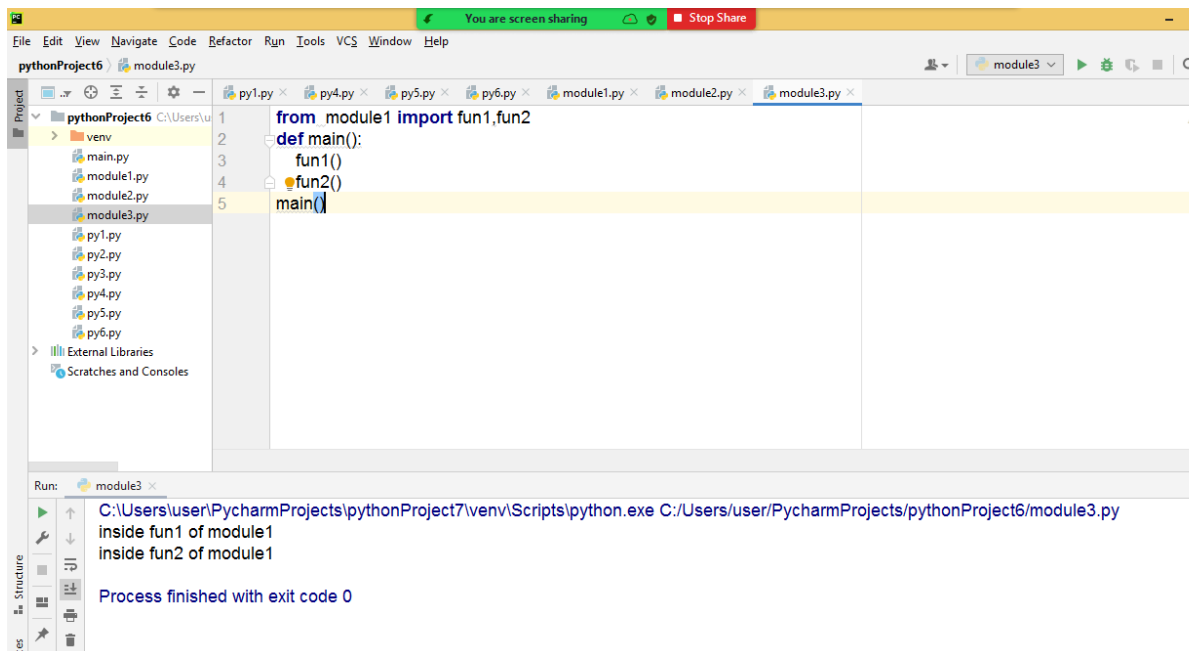
This syntax import entire module

This syntax import the module with another name/alias name



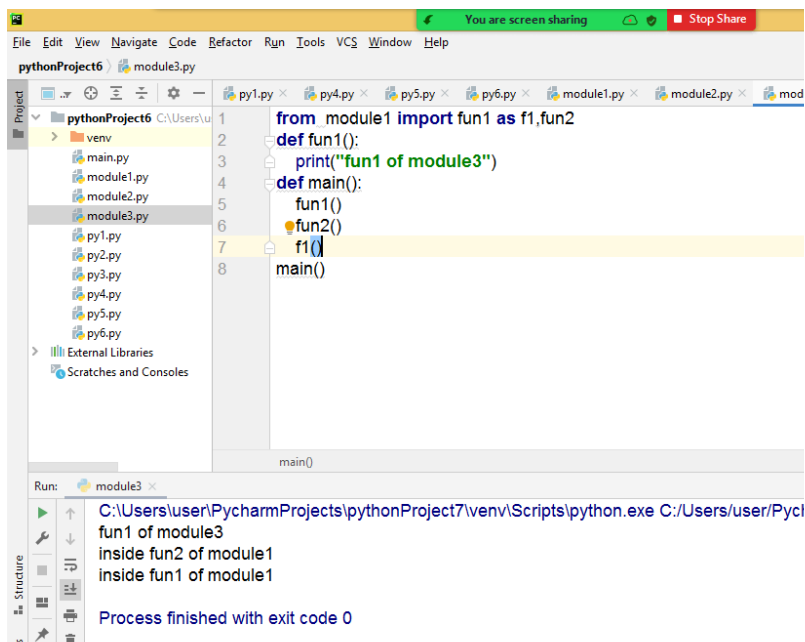
### Syntax3: from <module-name> import <identifier>,..

This syntax import the given identifiers (function-name, object name, class name) as part of current module



### Syntax5: from <module-name> import <identifier> as <alias-name>

This syntax import identifier (function-name,class name, object name) within current module with alias name



The screenshot shows the PyCharm IDE interface. The top toolbar includes a 'You are screen sharing' notification and a 'Stop Share' button. The menu bar contains File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The project 'pythonProject6' is open, with a file explorer on the left showing a 'venv' directory containing 'main.py', 'module1.py', 'module2.py', and 'module3.py'. The main editor window displays the code for 'module3.py':

```
1 from module1 import fun1 as f1,fun2
2 def fun1():
3     print("fun1 of module3")
4 def main():
5     fun1()
6     fun2()
7     f1()
8     main()
```

The bottom panel shows the 'Run' console for 'module3'. The output is:

```
C:\Users\user\PycharmProjects\pythonProject7\venv\Scripts\python.exe C:/Users/user/PycharmProjects/pythonProject7/venv/Scripts/python.exe
fun1 of module3
inside fun2 of module1
inside fun1 of module1
Process finished with exit code 0
```

Syntax4: from <module-name> import \*