

M1.6.a : What are Modules?

What are Modules & How can be used it in python programs ?

Modules:-

Python has a way to put definitions in a file and use them in a script or in an interactive instance of the interpreter. Such a file is called a module; definitions from a module can be imported into other modules or into the main module. The file name is the module name with the suffix `.py` appended. A module can contain executable statements as well as function definitions. These statements are intended to initialize the module. They are executed only the first time the module name is encountered in an import statement. (They are also run if the file is executed as a script.) .

Modules can import other modules. It is customary but not required to place all **import** statements at the beginning of a module (or script, for that matter). The imported module names are placed in the importing module's global symbol table.

Eg : If you create a file named **sample.py**, then it can be used as a module by import statement **import sample** .

import statement : You can use any Python source file as a module by executing an import statement in some other Python source file. When the interpreter encounters an import statement, it imports the module if the module is present in the search path. A search path is a list of directories that the interpreter searches before importing a module.

from import statement : Python's from statement lets you import specific attributes from a module into the current namespace. The from...import has the following syntax –

```
from module_name import name1,name2....nameN
```

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