

What is modules? Explain the need of modules.

A module is a file containing Python code, such as functions, classes, or variables, that can be reused in other programs. Modules help organize code, reduce repetition, and make programs easier to maintain. They allow programmers to divide large programs into smaller, manageable parts and use built-in or third-party functionality without rewriting code.

State the different ways of importing a module.

A module can be imported using the import statement, like `import math`, which allows access to all its functions. Specific functions can be imported using `from module import function`. Modules can also be given an alias using `import module as alias`, and all functions can be imported with `from module import *`.