**Day 3 30 October 2023**

**Introduction To Modules**

A module is a file containing Python code that defines a variables, functions, and classes. Modules allow you to organize your code into separate files, making it more manageable and easier to maintain.

Modules bind the code and reduce the repetitions of functions frequently used in the code. It makes the code much clear and easy to understand.

To create a module, you typically save your Python code in a **.py** file with the same names as the modele e.g **my\_module.py**

**Mechanism of Python Modules**

The mechanism of python modules is a fundamental part of how the code is organized and made reusable. Breaking your code into modular units, you can develop more maintainable and efficient Python programs.

**Importing Modules**

Syntax: *import module\_name*

e.g *import math*

Difference between a module and a package in Python:

Python Module: These are set of pre-defined files that contain the python codes which depict the basic functionalities of class, methods, variables, etc.

Python Package: It is a directory that holds and contains modules and sub-packages.