**Day 3 - Modules and pip in Python**

**🔹 What is a Module?**

* A **module** is a file that contains Python code.
* You can **reuse** code written by others using modules.

**🛠️ Types of Modules:**

1. **Built-in Modules**
   * Come with Python.
   * No need to install.
   * Examples: math, datetime, os.
2. **External Modules**
   * Made by others, not included by default.
   * Installed using pip or conda.
   * Examples: pandas, numpy, requests.

**🔹 What is pip?**

* **pip** is a **package manager** for installing Python modules.
* Example to install a module:

bash

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pip install pandas

**🔹 Using a Module in Python**

We use the import keyword to load a module.

**Example:**

python

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import pandas

# Reading a CSV file using pandas

df = pandas.read\_csv('words.csv')

print(df)

**📌 Note:**

* You can install **many useful modules** using pip.
* Always check the **official documentation** of a module to learn how to use it.
* We will use modules **frequently** later in the course.