- when you need an unchangeable collection of items.
- To store unique hashable values securely.
- Frozen sets are immutable versions of sets.

## Day 12

Python modules : for Data Analytics.

PYPI.org

available module

PIP - Package Installer for Python.

PYPI - Python Package Index.

1. Built in modules

2. User defined

3. External.

1. Built in :

- Python comes with many built in modules that provide various functionalities.

Eg. using math :

1. import math

Print (math. sqrt (16))

Print (math. factorial (5))

print . (math . pi)

2. import random.

2. User -defined module:
   you can create your own module by
   saving a Python file. (.py) with function
   and variables.

3. Using External:
   installe and use pandas
   Pip install Pandas.

1. import modules:

   1. import the whole module.
   2. import a specific function in
   3. import with an Alias.
   4. import all functions:

   finding available functions:
   use the dir() function to list all functions
   and variables inside a module.
   import math print dir (math)

   check module
   Documentation.

Python Packages:
1. creat a
   1. - init
   2. + ma
   3. &
2. importing
3. installing
4. check if
5. uninstalling
6. installi
7. upgrade
8. listing
9. versi
10. unist

Virtual En

Pip un

Pandas,
numpy,
matplotlib,
seaborn
scipy,

Python Packages:

1. Create a Python Package.
   1. - init - .py
   2. + math - utils.py
   3. String - utils.py

2. importing from a Package.
3. installing and using external packages.
4. check if Pip is installed.
5. installing a package with PiP.
6. installing a specific package version.
7. upgrade a package.
8. listing installed packages
9. uninstalling a package.
10. uninstalling multiple packages from a file.

Virtual Environment:
   - m venv myenv

   Pip install numpy pandas

Pandas,          Stats models
numpy,           sklearn.
matplotlib,
seaborn
scipy,