**Section 9: Modules and Packages**

**28.02.**

**77. Pip Install and PyPi**

PyPI stands for Python Package Index and is a repository for open source packages

**78. Modules and Packages**

Modules are just .py scripts

Packages are collection of modules

To import a function from a module: from module\_name import function\_name

Python recognizes a folder as a package if we place a \_\_init\_\_.py module

We can have subpackages and these need to have \_\_init\_\_.py too

We can override the \_\_all\_\_ in init.py to decide what modules are exported

\_\_all\_\_ = [‘bar’, …]

A module from a subpackage can be accessed like this:

From package.sub\_package import module

**79. \_\_name\_\_ and "\_\_main\_\_"**

If \_\_name\_\_ == ‘\_\_main\_\_’:

# run the code if the module is executed directly

If we have this code in a module that is imported and not called directly, the condition is False

Usually is used to call the functions defined in the module

When a module is imported, \_\_name\_\_ has the value == to the name