Object Oriented Programming using Python (II)

Lecture(3)

How to install modules in Python

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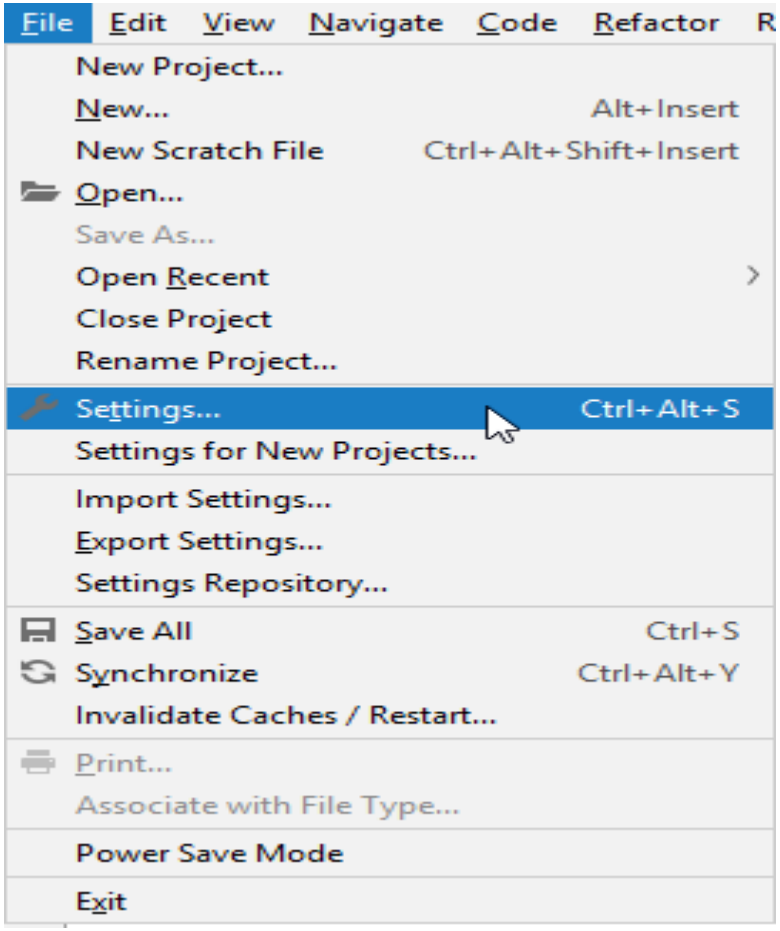
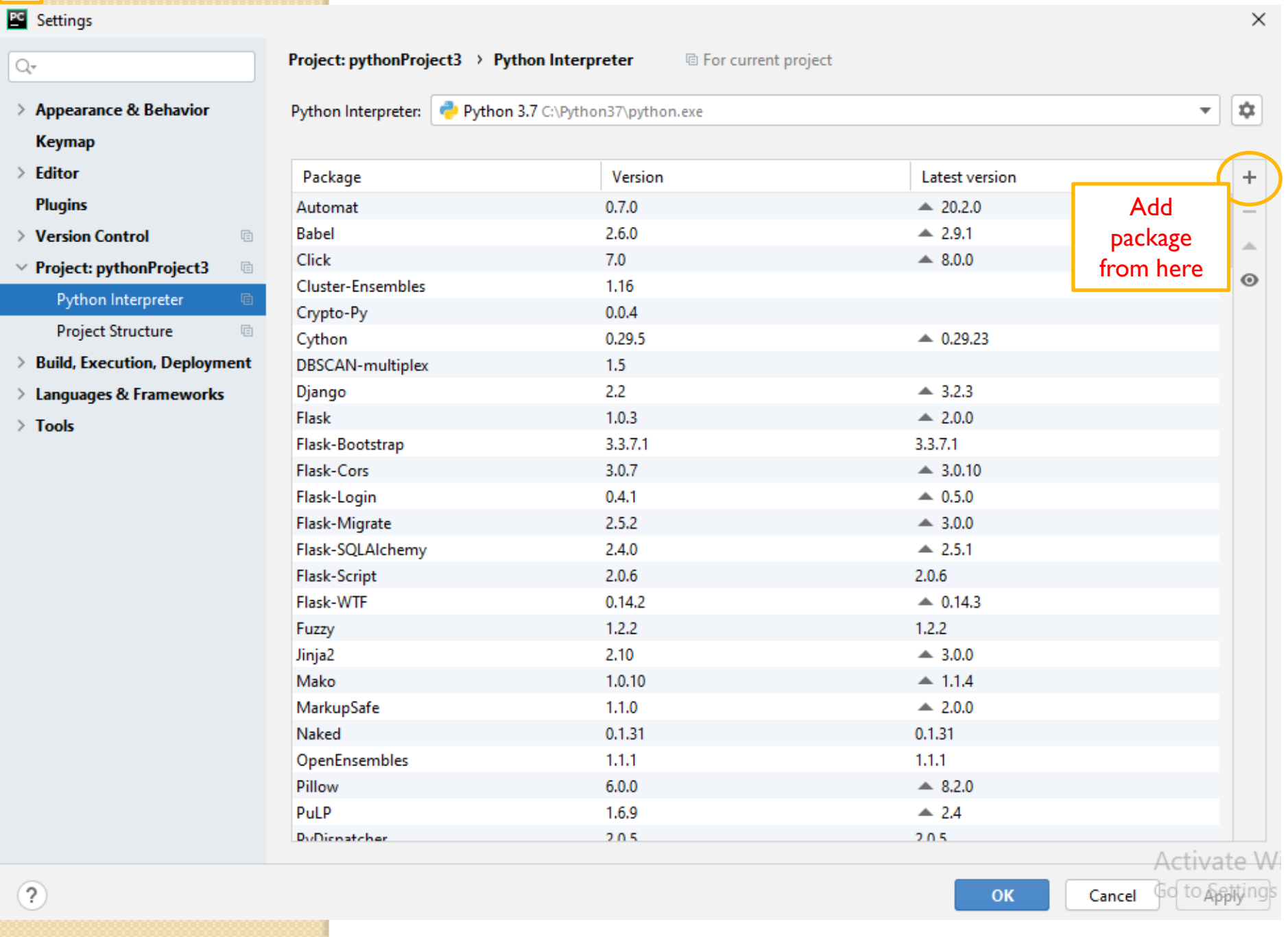
You can install modules in PyCharm using the GUI. Refer to the below screenshots:

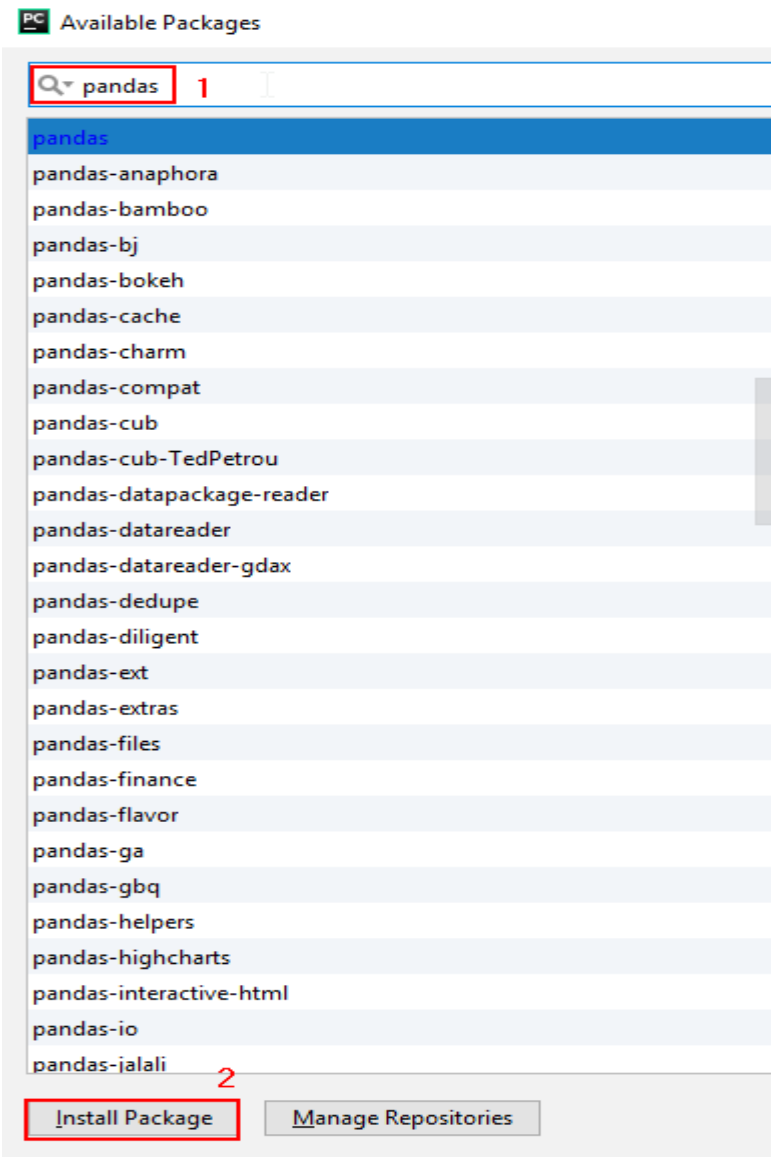
1



2


Settings
Project: pythonProject3 › Python Interpreter
For current project
Python Interpreter: Python 3.7 C:\Python37\python.exe
Appearance & Behavior
Keymap
Editor
Plugins
Version Control
Project: pythonProject3
Python Interpreter
Project Structure
Build, Execution, Deployment
Languages & Frameworks
Tools
Package | Version | Latest version
Automat 0.7.0 20.2.0
Babel 2.6.0 2.9.1
Click 7.0 8.0.0
Cluster-Ensembles 1.16
Crypto-Py 0.0.4
Cython 0.29.5 0.29.23
DBSCAN-multiplex 1.5
Django 2.2 3.2.3
Flask 1.0.3 2.0.0
Flask-Bootstrap 3.3.7.1 3.3.7.1
Flask-Cors 3.0.7 3.0.10
Flask-Login 0.4.1 0.5.0
Flask-Migrate 2.5.2 3.0.0
Flask-SQLAlchemy 2.4.0 2.5.1
Flask-Script 2.0.6 2.0.6
Flask-WTF 0.14.2 0.14.3
Fuzzy 1.2.2 1.2.2
Jinja2 2.10 3.0.0
Mako 1.0.10 1.1.4
MarkupSafe 1.1.0 2.0.0
Naked 0.1.31 0.1.31
OpenEnsembles 1.1.1 1.1.1
Pillow 6.0.0 8.2.0
PuLP 1.6.9 2.4
Add package from here
OK
Cancel
Apply

3


Available Packages
pandas
1
pandas
pandas-anaphora
pandas-bamboo
pandas-bj
pandas-bokeh
pandas-cache
pandas-charm
pandas-compat
pandas-cub
pandas-cub-TedPetrou
pandas-datapackage-reader
pandas-datareader
pandas-datareader-gdax
pandas-dedupe
pandas-diligent
pandas-ext
pandas-extras
pandas-files
pandas-finance
pandas-flavor
pandas-ga
pandas-gbq
pandas-helpers
pandas-highcharts
pandas-interactive-html
pandas-io
pandas-jalali
2
Install Package
Manage Repositories

❑**pip** is a package management system used to install and manage software packages written in Python.

❑ Many packages can be found in the default source for packages and their dependencies — Python Package Index (PyPI).

One major advantage of pip is the ease of its command-line interface, which makes installing Python software packages as easy as issuing one command:

```
pip install some-package-name
```

Users can also easily remove the package:

```
pip uninstall some-package-name
```

Check if PIP is Installed

Navigate your command line to the location of Python's script directory, and type the following:

Example

Check PIP version:

```
C:\Users\Your Name\AppData\Local\Programs\Python\Python36-32\Scripts>pip --version
```

Install PIP

If you do not have PIP installed, you can download and install it from this page: https://pypi.org/project/pip/

How to Install a Package in Python using PIP

you'll see how to install a package in Python using PIP. You'll also learn how to uninstall a package that is no longer needed.
If you're using Windows, you'll be able to install a Python package by opening the Windows *Command Prompt*, and then typing this command:

```
pip install package_name
```

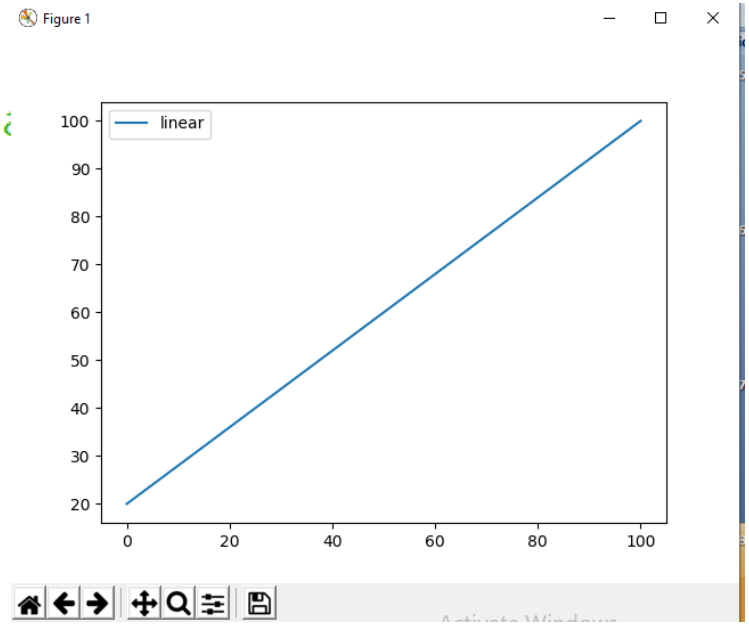
Example:Python Plotting using numpy and matplotlib

```
# Import the necessary packages and modules
import matplotlib.pyplot as plt
import numpy as np

# Prepare the data
x = np.linspace(0, 100)
y = np.linspace(20, 100)
# Plot the data
plt.plot(x, y, label='linea

# Add a legend
plt.legend()

# Show the plot
plt.show()
```



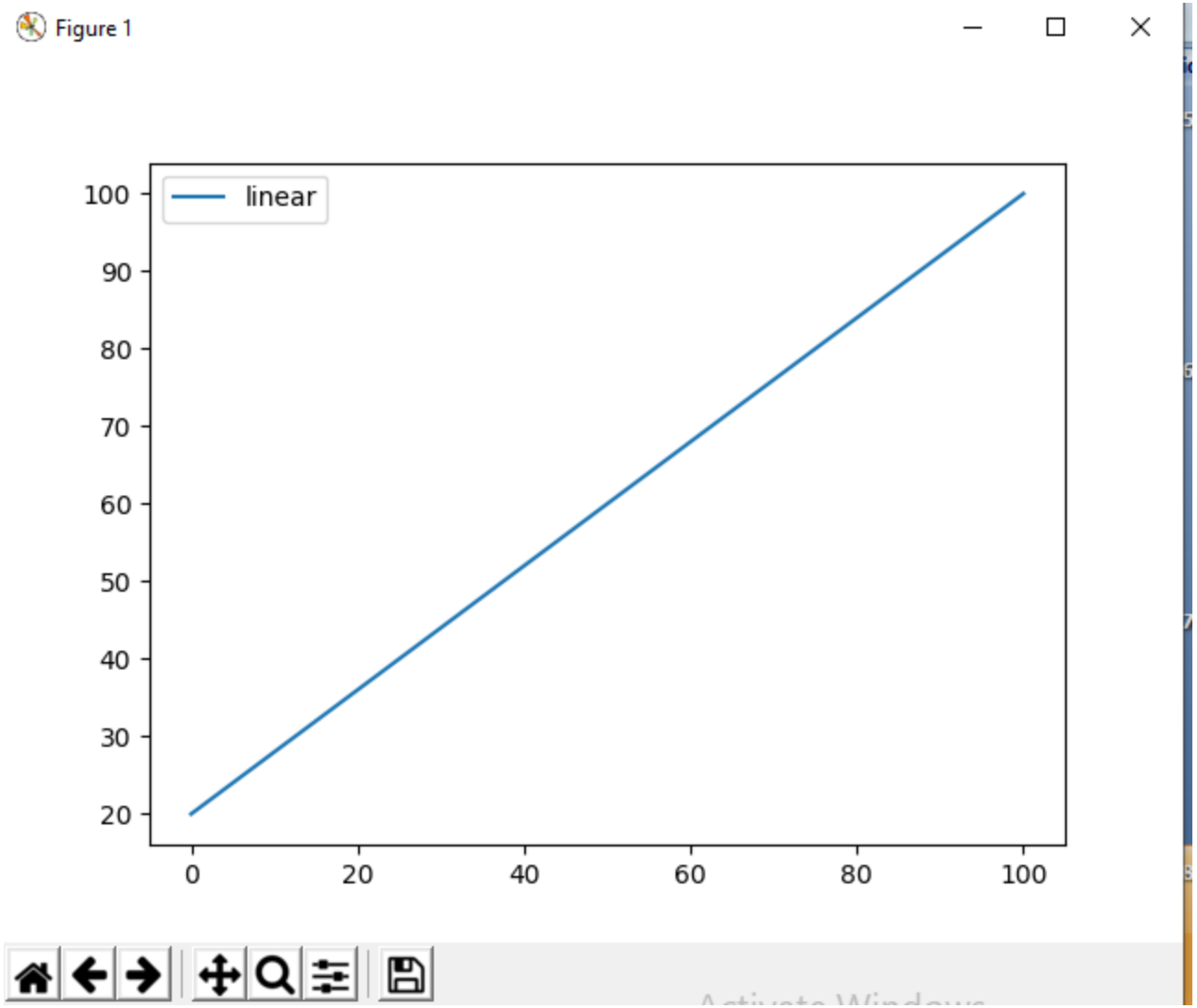


Figure 1
linear
100
90
80
70
60
50
40
30
20
0
20
40
60
80
100