



OBJECT ORIENTED DESIGN & PROGRAMMING (INSY 404) LECTURE SLIDES - 3

By

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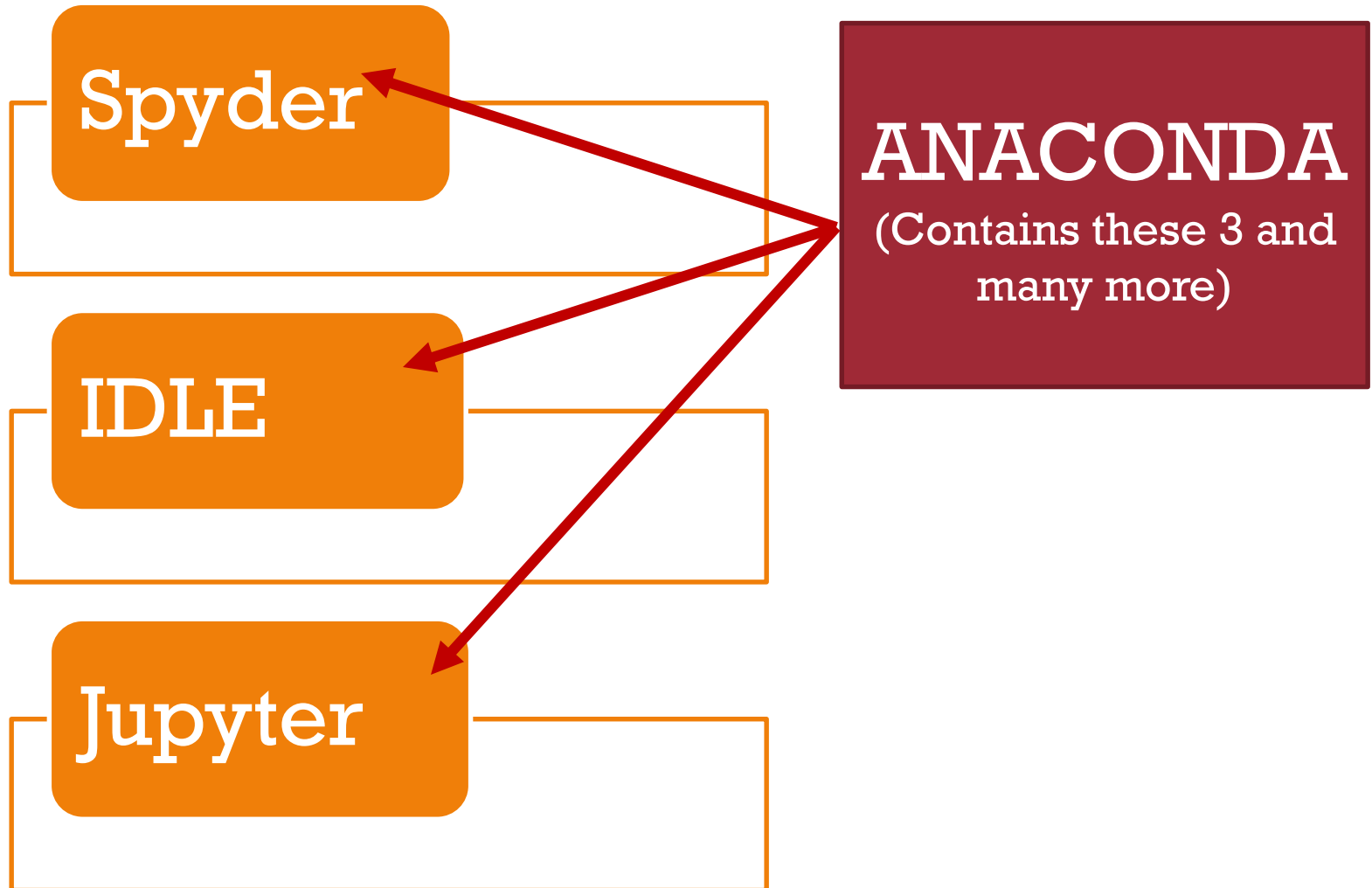


LECTURE MODULE 3

S/N	CONTENT
1.	PYTHON TOOLS
2.	ANACONDA
3.	INSTALLATION
4.	QUESTIONS



PYTHON TOOLS (Editors/IDEs)





ANACONDA

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1. Go to www.anaconda.com to download Anaconda IDE.

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Anaconda Distribution

The World's Most Popular Python/R Data Science Platform

[Download](#)

Click Download

The open-source [Anaconda Distribution](#) is the easiest way to perform Python/R data science and machine learning on Linux, Windows, and Mac OS X. With over 19 million users worldwide, it is the industry standard for developing, testing, and training on a single machine, enabling *individual data scientists* to:

- Quickly download 7,500+ Python/R data science packages
- Manage libraries, dependencies, and environments with [Conda](#)
- Develop and train machine learning and deep learning models with [scikit-learn](#), [TensorFlow](#), and [Theano](#)
- Analyze data with scalability and performance with [Dask](#), [NumPy](#), [pandas](#), and [Numba](#)





ANACONDA

Select Python Version 3.7 by
Clicking the appropriate
Graphical Installer (64-Bits /
32 Bits).



Windows | macOS | Linux

Anaconda 2019.10 for Windows Installer

Python 3.7 version

Download

64-Bit Graphical Installer (462 MB)
32-Bit Graphical Installer (410 MB)

Python 2.7 version

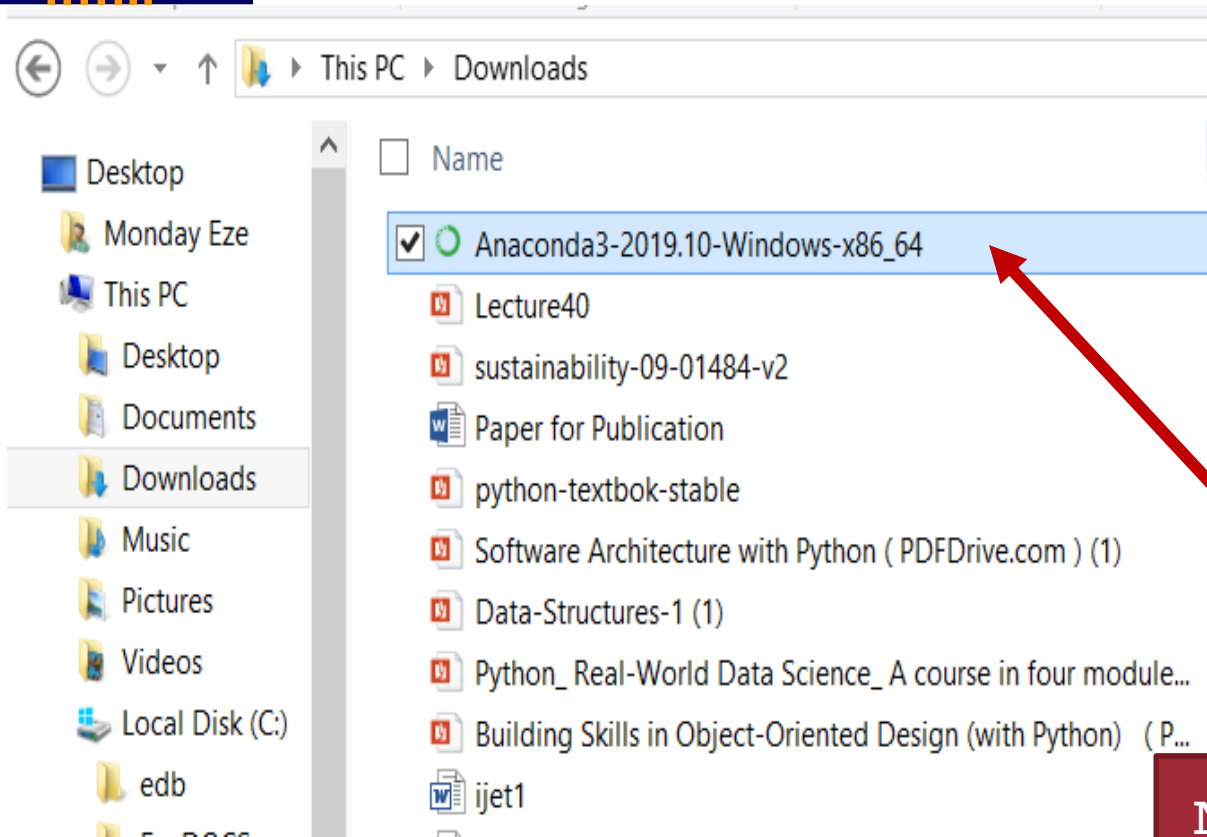
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32-Bit Graphical Installer (356 MB)

Get Started with Anaconda Distribution



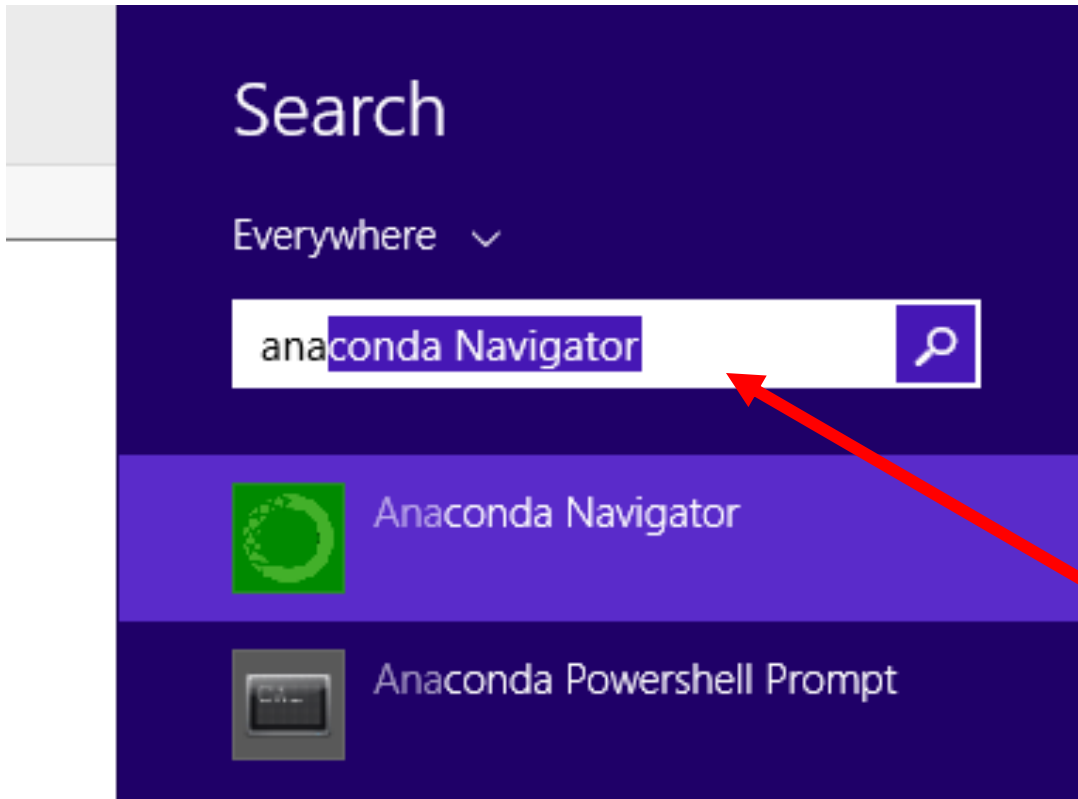
ANACONDA



Now pick the installation file (Anaconda3-2019.10-Windows-x86_64) and perform the necessary installations.

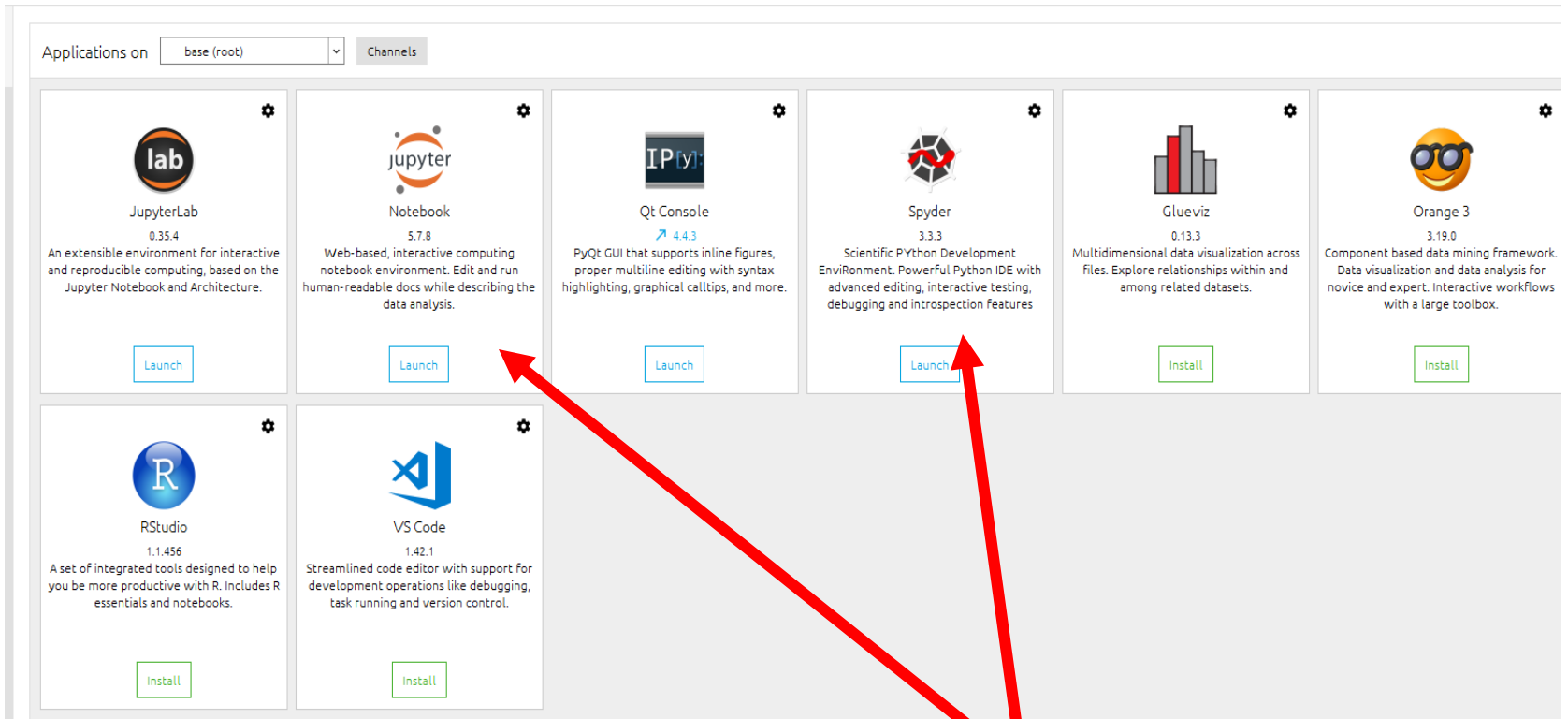


STARTING THE IDE



In your Windows Environment, Search for the **Anaconda Navigator** and click to start the IDE.

ANACONDA



Click appropriate option to get the Editor or the Command prompt in order to commence Python Programming as shown in the next slide.



ANACONDA

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

Editor - C:\EzeDOCS\PyProgram\gentest3.py

```
1 #import mobile
2 class A:
3     def methodxyz(self):
4         """ Thanks
5         """
6         pass
7 class B (A):
8     def methodxyz(self):
9         pass
10 class C (A):
11     def methodxyz(self):
12         pass
13 class D(B, C):
14     def methodxyz(self):
15         """Taraba Taraba
16         Tarabar
17         """
18         pass
19 help(methodxyz)
20 print(methodxyz.__doc__)
```

Usage

Here you can get help of any object by pressing **Ctrl+I** in from Editor or the Console.

Help can also be shown automatically after writing a left pare object. You can activate this behavior in *Preferences > Help*.

New to Spyder? Read our [tutorial](#)

Variable explorer File explorer Help

IPython console

Console 1/A

Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.4.0 -- An enhanced Interactive Python.

In [1]:

Programming Space

Output Space



CLASS ASSIGNMENT

- 1. Install Anaconda in your Laptop.*