



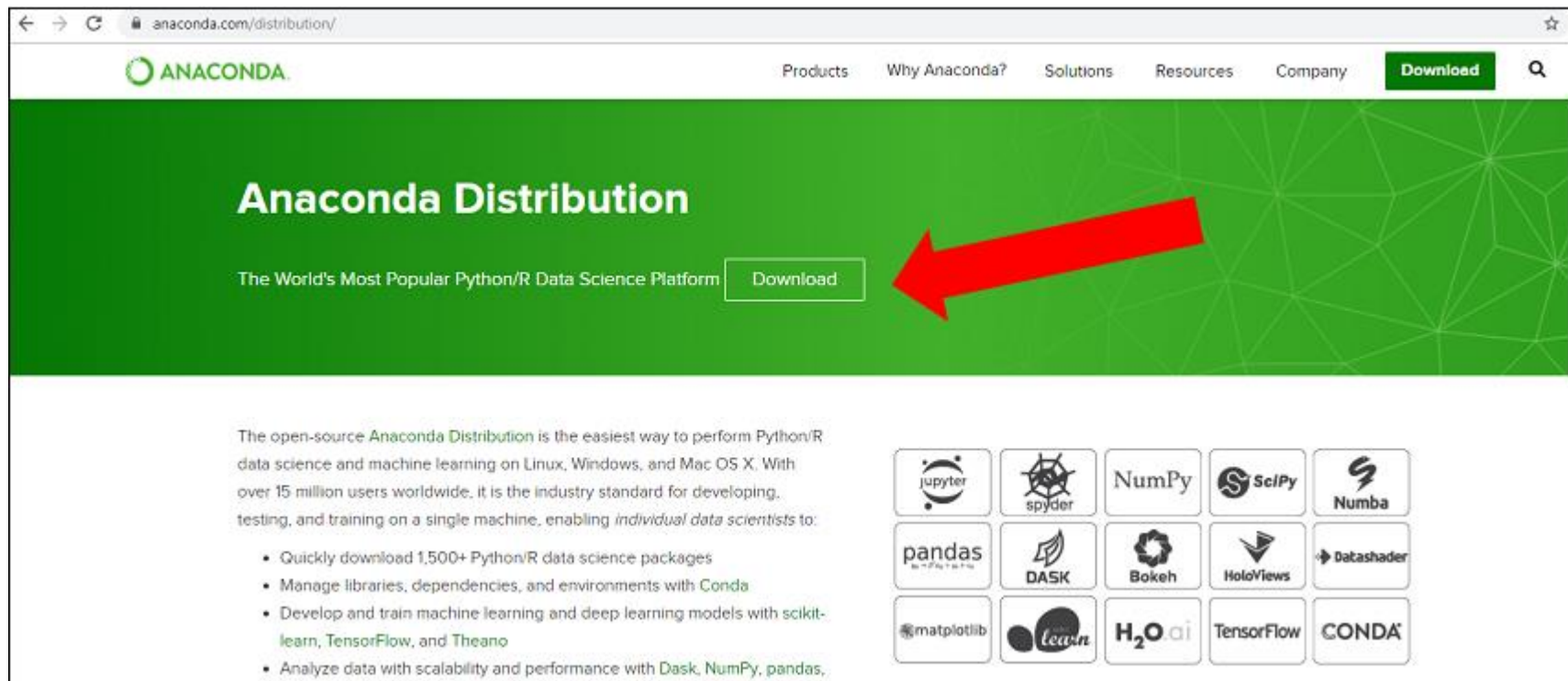
HO CHI MINH CITY UNIVERSITY OF TRANSPORT
FACULTY OF INFORMATION TECHNOLOGY
SOFTWARE ENGINEERING DEPARTMENT

Guidelines for Installing and Using Anaconda on Windows



Where can you get Anaconda?

- Go to <https://www.anaconda.com/products/individual>
- Select Download

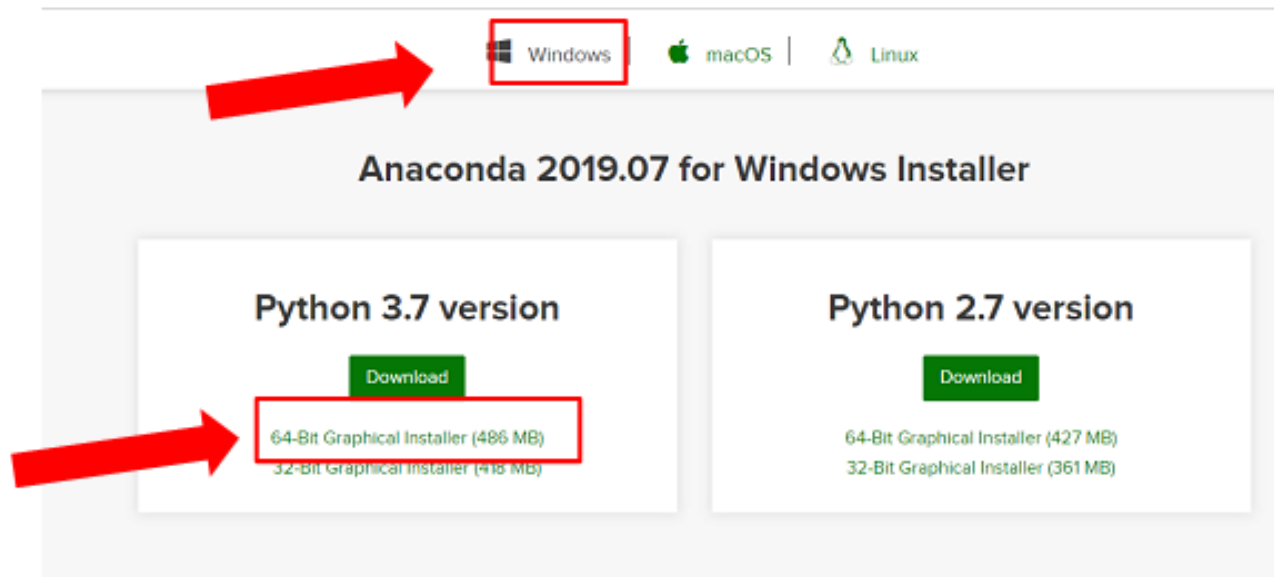




Start your Anaconda Download

- Select your operating system (Windows, macOS, Linux)
- Select Python 3.7 version with 64-bit installer if you have a 64-bit machine.

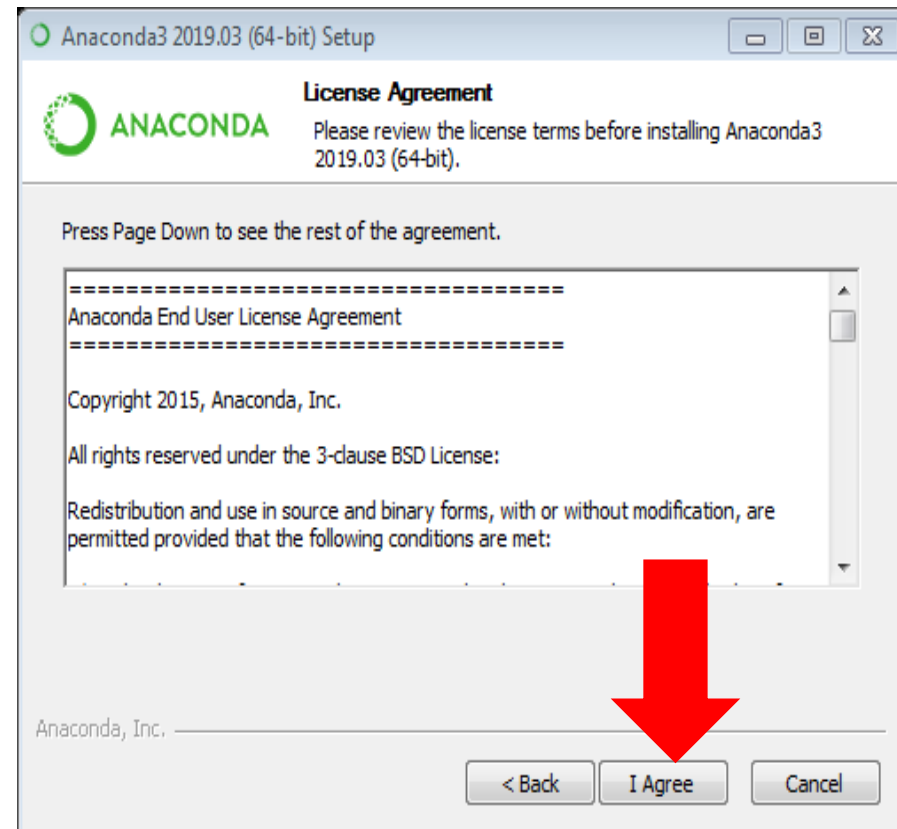
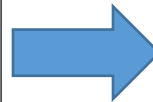
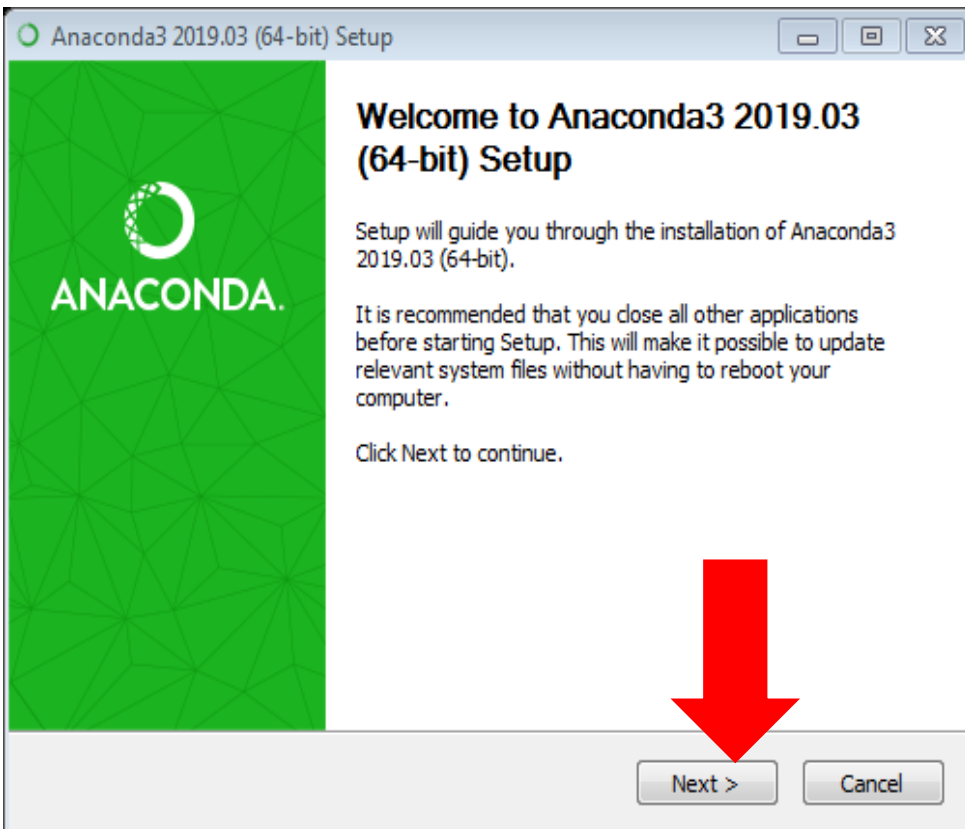
NOTE: This is for Windows install.





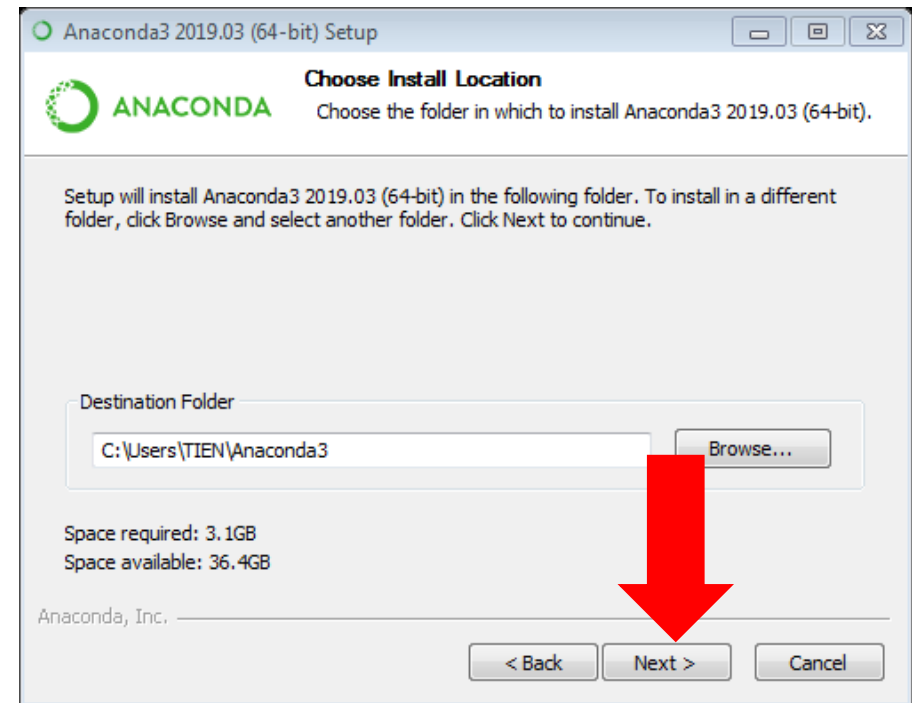
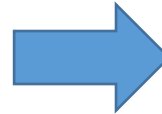
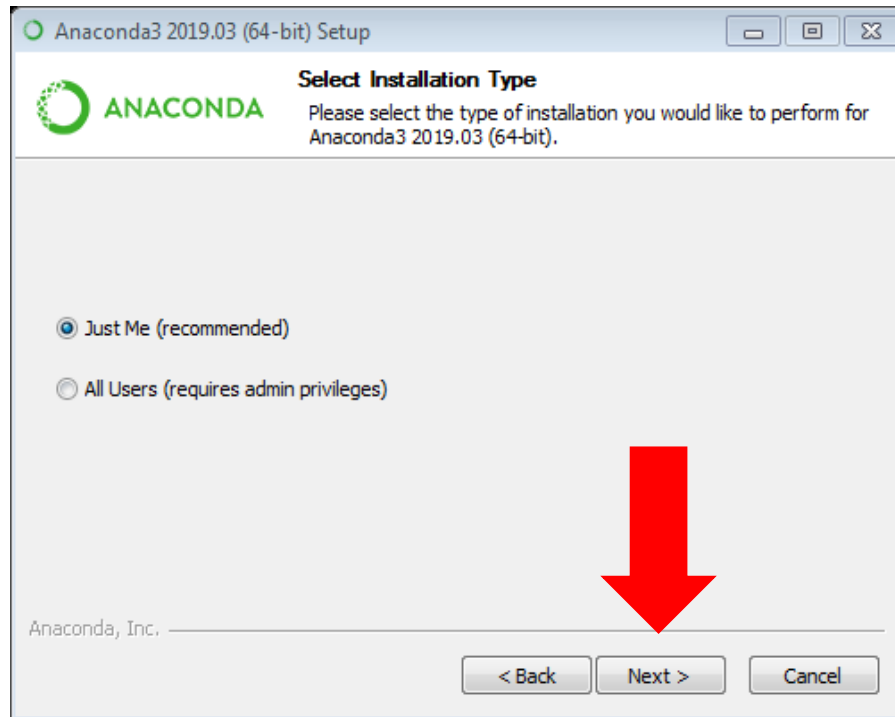
Start Install

- Open the file you downloaded. You will see the following screen and then select **Next** and **I agree** on the following screen. See below and follow selections.





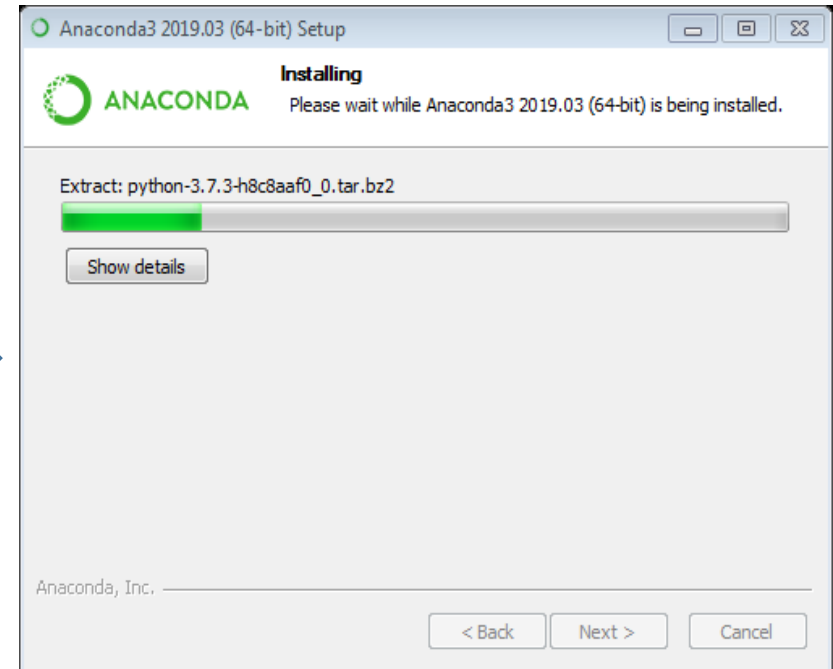
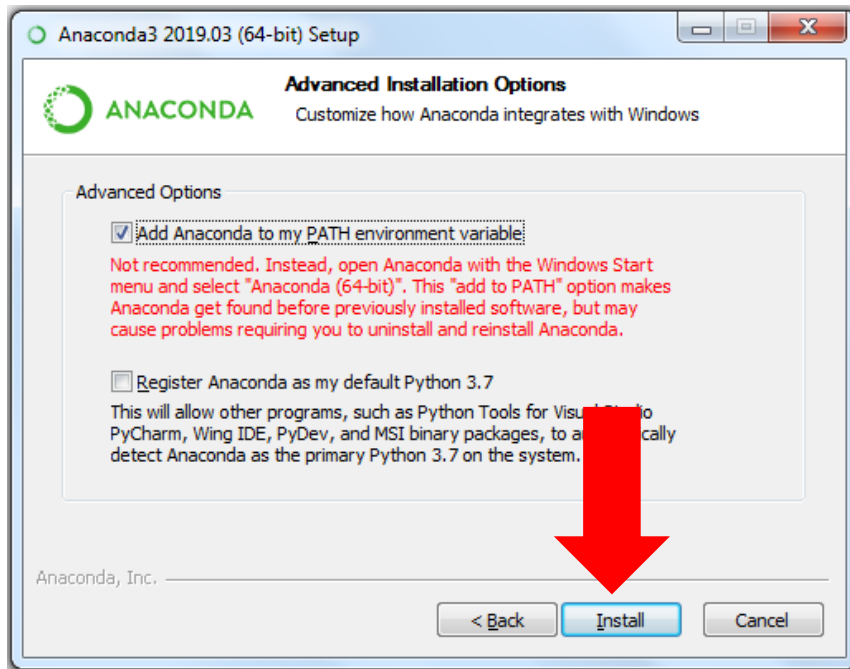
Install - Continued





Install - continued

- Select: Add Anaconda to my PATH environment variable.
- When Installation complete → Click “Next” → Click “Next” → “Finish”





How to write a Python program

- You can write and run a Python program in 3 ways:
 - Anaconda Prompt
 - Spyder IDE
 - Jupyter Notebook



Using Anaconda Prompt

1. Click on Start menu → Click folder “Anaconda3 (64-bit)” → Select **Anaconda Prompt**.
2. Type “python” and press Enter
3. You can enter a Python code after prompt `>>>` and press Enter
4. To exit **Python**, press CTRL+Z

```
python
(base) C:\Users\TIEN>python
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print("Welcome to Python")
Welcome to Python
>>> print("Python is fun")
Python is fun
>>>
```




Using Anaconda Prompt

- You can run a Python program using Anaconda prompt
 1. Using Notepad to edit program → Save file with name: **filename.py**
 2. Launch Anaconda prompt
 3. Type: **>python path-to-your-file**

```
Anaconda Prompt

(base) C:\Users\TIEN>python example.py
Hello
3

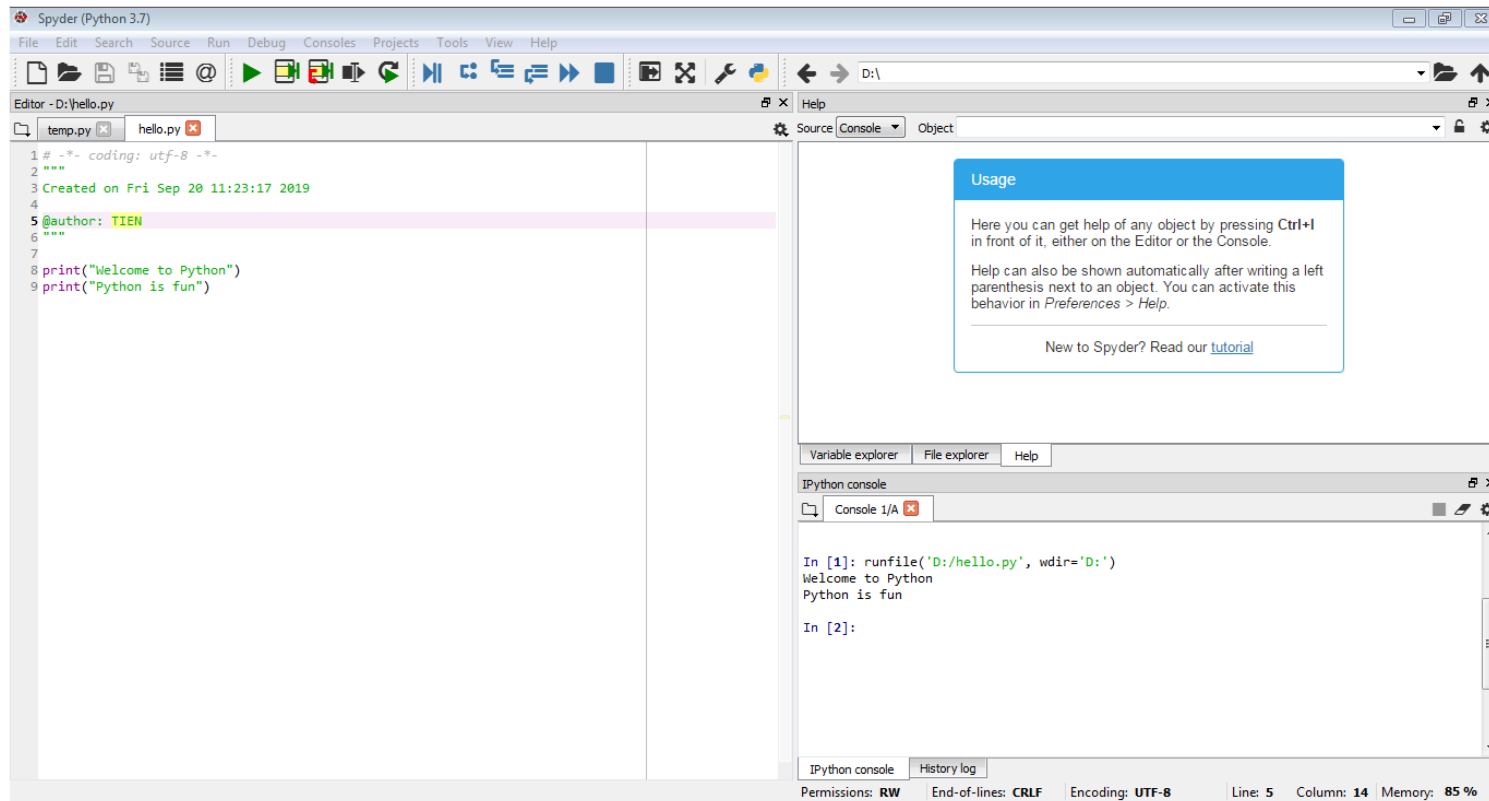
(base) C:\Users\TIEN>python D:/python/example.py
Hello
3

(base) C:\Users\TIEN>
```



Using Spyder IDE

- Click on Start menu → Click folder “Anaconda3 (64-bit)” → Select **Spyder**
- Write program into editor → click **Run** button or press F5.
- You can see your program’s output in the bottom right Console pane.





Using Jupyter Notebook

1. Launch Jupyter Notebook

- Click on Start menu → Click folder “Anaconda3 (64-bit)” → Select **Jupyter Notebook**.
- You will see the following display in your default browser





Using Jupyter Notebook

2. Create a new Notebook:

- Clicking the **New** button → Python 3

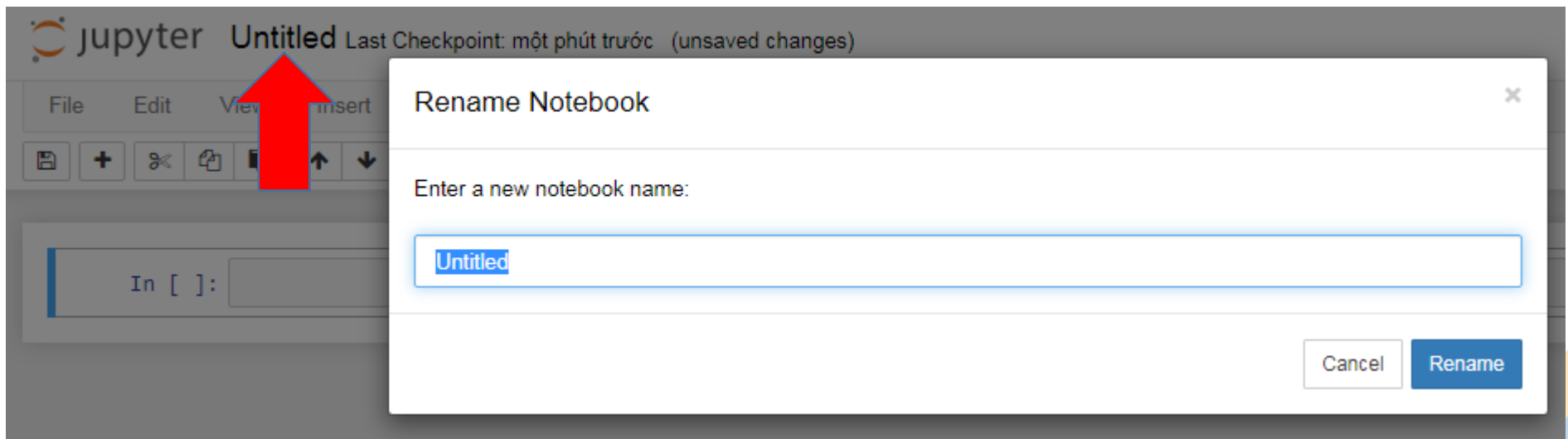
The screenshot shows the Jupyter Notebook web interface. At the top left is the Jupyter logo. On the top right are 'Quit' and 'Logout' buttons. Below the logo are tabs for 'Files', 'Running', and 'Clusters'. A message says 'Select items to perform actions on them.' Below this is a file browser showing a directory structure with folders like 'Anaconda3', 'Contacts', 'DataScience', 'Desktop', and 'Documents'. On the right side of the file browser, there are buttons for 'Upload', 'New', and a refresh icon. The 'New' button is clicked, opening a dropdown menu. The menu has two sections: 'Notebook:' and 'Other:'. Under 'Notebook:', there is an option 'Python 3' which is highlighted by a large red arrow. Under 'Other:', there are options for 'Text File', 'Folder', and 'Terminal'. At the bottom of the dropdown menu, there is a button that says 'Create a new notebook'.



Using Jupyter Notebook

3. Rename your Notebook

- Click on the current name and edit it or find rename under File in the top menu bar





Using Jupyter Notebook

4. Write and run commands

- In the **In[]** cell, you type simple code one line at a time or an entire function → press Shift + Enter or click Run button.

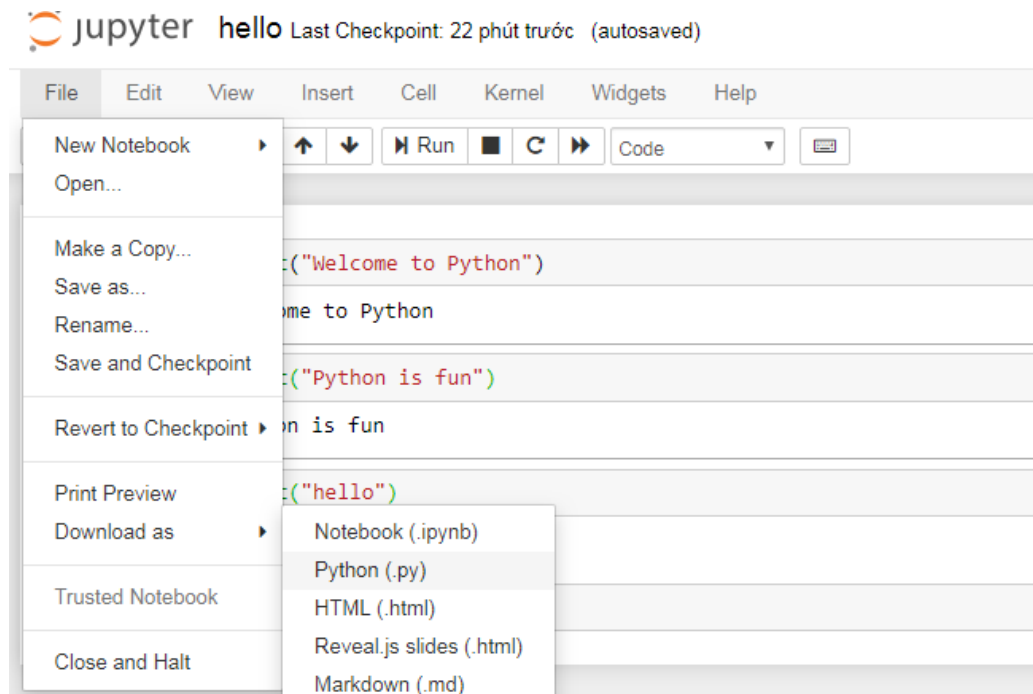
The screenshot shows the Jupyter Notebook interface. At the top, the header includes the Jupyter logo, the text "hello", and "Last Checkpoint: 15 phút trước (autosaved)". On the right, there is a Python logo and a "Logout" button. Below the header is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". To the right of the menu bar are "Trusted" and "Python 3" indicators. Below the menu bar is a toolbar with various icons. A red arrow points to the "Run" button (represented by a play icon) in the toolbar. Below the toolbar, there are two code cells. The first cell is labeled "In [1]:" and contains the code `print("Welcome to Python")`. Below the code, the output "Welcome to Python" is displayed. The second cell is labeled "In [4]:" and contains the code `print("Python is fun")`. Below the code, the output "Python is fun" is displayed.



Using Jupyter Notebook

5. Save a file

- Notebook is file *.ipynb and saved in installed directory Anaconda3 by default.
- You can save notebook to an another location.
 - Clicking File → Download as → Notebook (.ipynb)
 - Or another format, such as Python (.py), PDF,...

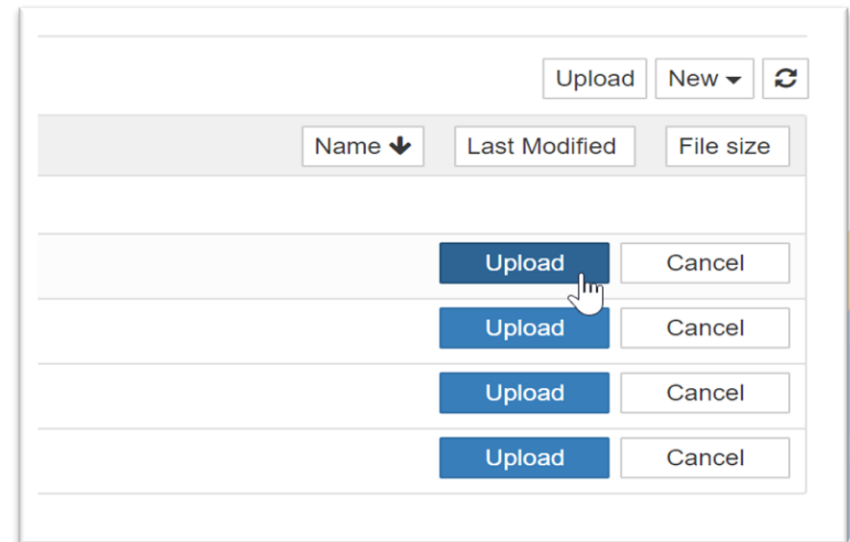
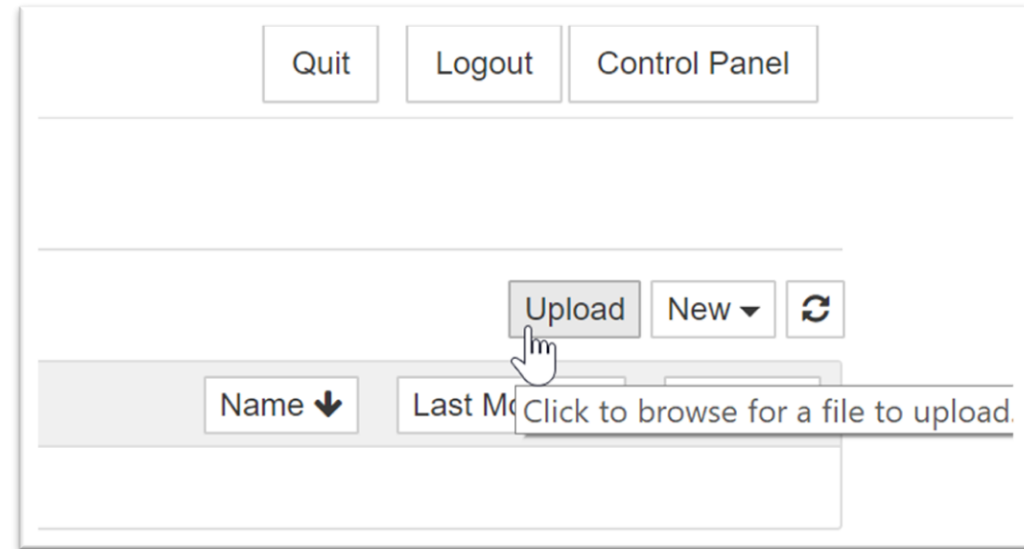




Using Jupyter Notebook

6. Upload a file into Jupyter notebook

- Navigate to the Jupyter Notebook interface home page
- Click the “Upload” button to open the file chooser window.
- Choose the file you wish to upload. You may select multiple files if you wish.
- Click “Upload” for each file that you wish to upload.
- These files will now be on your JupyterHub, your home user’s home directory

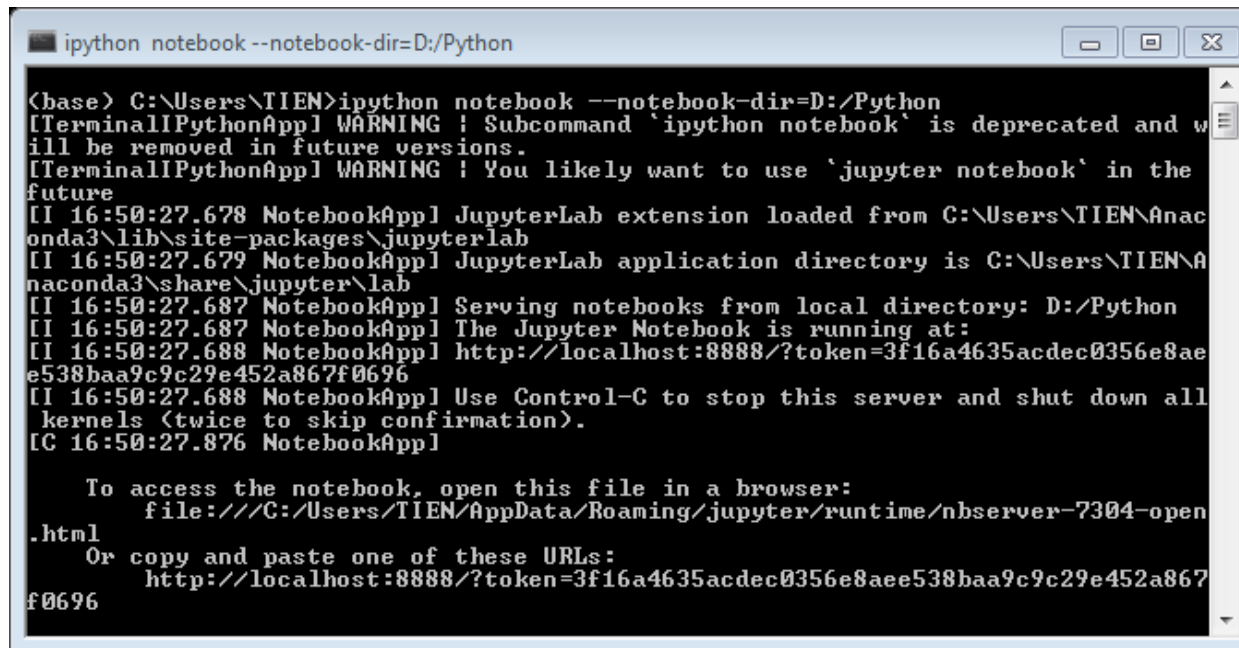




Using Jupyter Notebook

7. Change Jupyter notebook working directory

- Create your folder in specific location you wish
- Run “Anaconda Prompt”
- Type command: **ipython notebook --notebook-dir=/path/directory**
- **/path/directory**: path to your folder



```
ipython notebook --notebook-dir=D:/Python

(base) C:\Users\TIEN>ipython notebook --notebook-dir=D:/Python
[TerminalPythonApp] WARNING ! Subcommand 'ipython notebook' is deprecated and will be removed in future versions.
[TerminalPythonApp] WARNING ! You likely want to use 'jupyter notebook' in the future
[I 16:50:27.678 NotebookApp] JupyterLab extension loaded from C:\Users\TIEN\Anaconda3\lib\site-packages\jupyterlab
[I 16:50:27.679 NotebookApp] JupyterLab application directory is C:\Users\TIEN\Anaconda3\share\jupyter\lab
[I 16:50:27.687 NotebookApp] Serving notebooks from local directory: D:/Python
[I 16:50:27.687 NotebookApp] The Jupyter Notebook is running at:
[I 16:50:27.688 NotebookApp] http://localhost:8888/?token=3f16a4635acdec0356e8aee538baa9c9c29e452a867f0696
[I 16:50:27.688 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 16:50:27.876 NotebookApp]

To access the notebook, open this file in a browser:
    file:///C:/Users/TIEN/AppData/Roaming/jupyter/runtime/nbserver-7304-open.html
Or copy and paste one of these URLs:
    http://localhost:8888/?token=3f16a4635acdec0356e8aee538baa9c9c29e452a867f0696
```



Use Python online

- If you don't have Python, use Python Tutor until you get Anaconda installed.
 - <http://www.pythontutor.com>

VISUALIZE CODE AND GET LIVE HELP

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[Python Tutor](#) (created by [Philip Guo](#)) helps people overcome a fundamental barrier to learning programming: understanding what happens as the computer runs each line of code.

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Write code in Python 3.6

1

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Visualize Execution

Live Programming Mode