

# Installation and Usage Guide

## Anaconda Installation

Note:

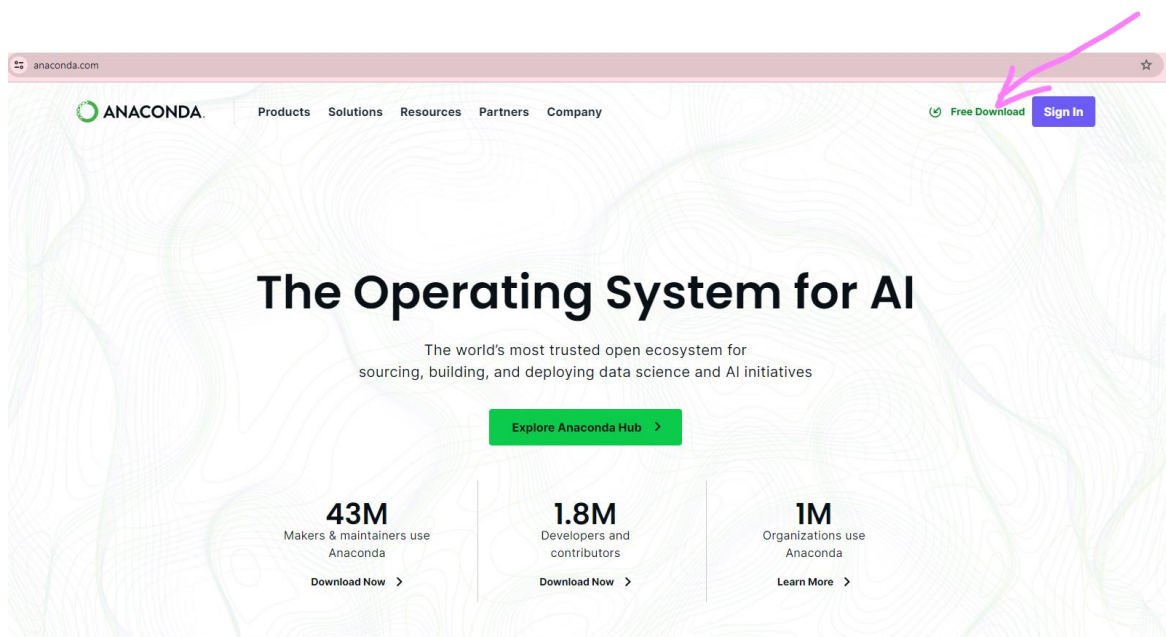
Please use your personal laptops for installation. Anaconda Default is available for free to developers, students, teachers, academic institutions, and non-commercial open-source software projects. Therefore, it is not permissible to install it on your office or work PC.

### About Anaconda

- Anaconda is an open-source distribution of the programming languages Python and R. It comes with various packages related to machine learning and data science.
- The idea behind Anaconda is to simplify package management and deployment for data scientists.
- By installing Anaconda, you can easily get the Python interpreter along with essential data science libraries, making it convenient to work on projects without worrying about missing dependencies<sup>1</sup>.
- If you're interested in scientific computing, machine learning applications, large-scale data processing, or predictive analytics, Anaconda is a great choice!

### Anaconda Installation Steps

1. Go to official page of Anaconda- <https://www.anaconda.com/>  
Click free download on link.



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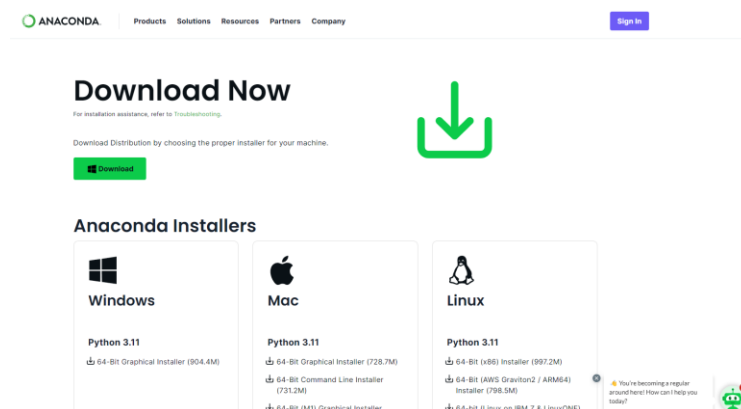
Preeti Mishra | Senior Facilitator | Regenesys School of Technology | preeti.m@regenesys.net

## 2. Click on Skip Registration

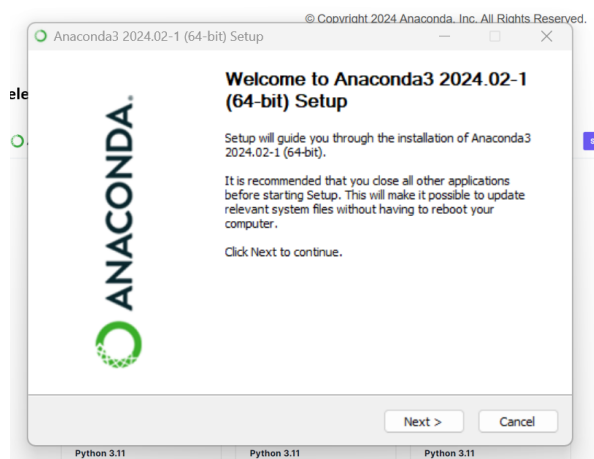
( Go through privacy policy and terms of use carefully- [Privacy Policy](#) and [Terms of Service](#).)

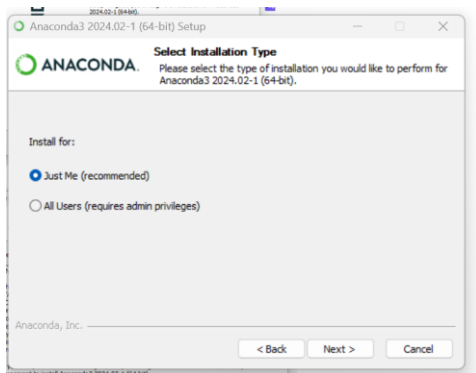
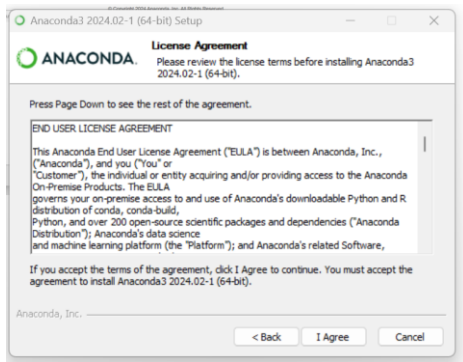
The screenshot shows the Anaconda website's 'Distribution' page. On the right, a modal form titled 'Provide email to download Distribution' is displayed. It includes a text input for 'Email Address', a checkbox for agreeing to receive communication, and a 'Submit' button. Below the 'Submit' button is a link that says 'Skip registration', which is highlighted by an orange arrow pointing from the right side of the page.

## 3. Select relevant installer

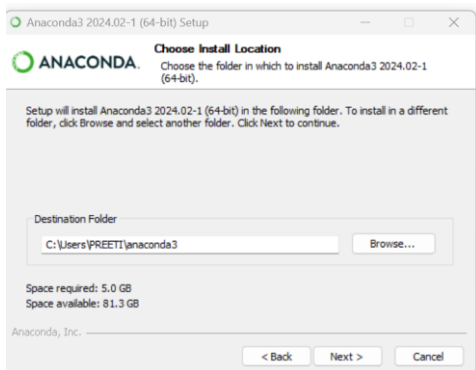


## 4. Installer downloads in your system, follow installation by executing the download



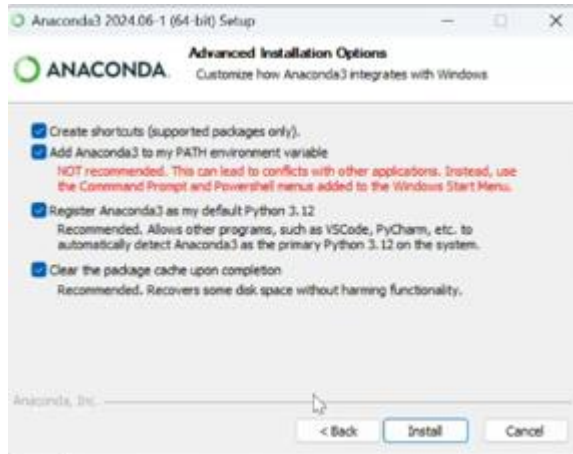


**Let the path be default:**

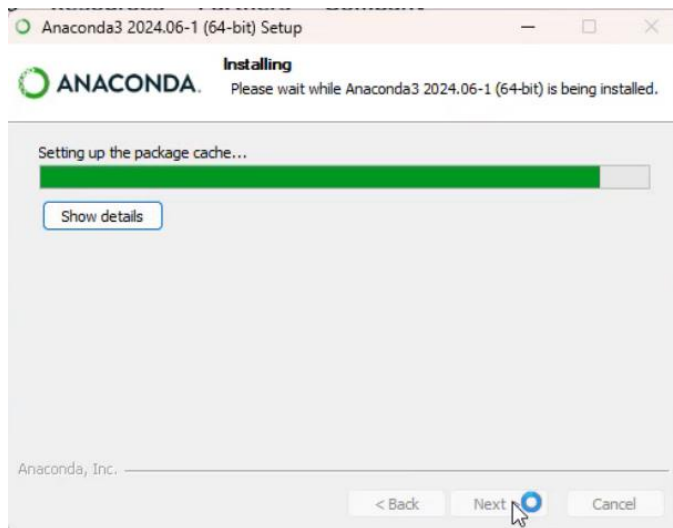


**Click next and proceed installation:**

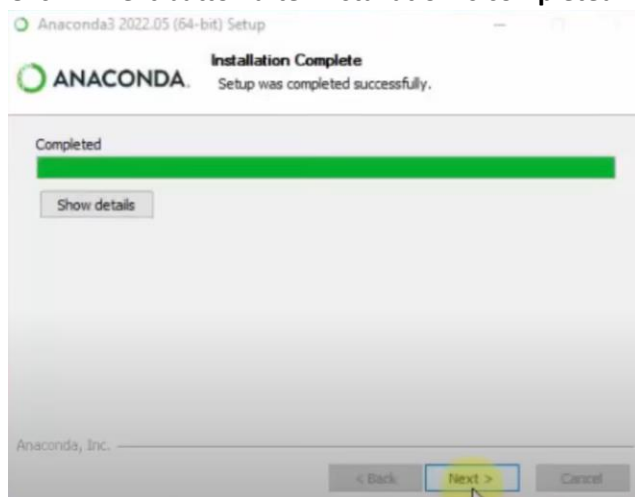
Ensure that all checkboxes are selected before clicking on Install button



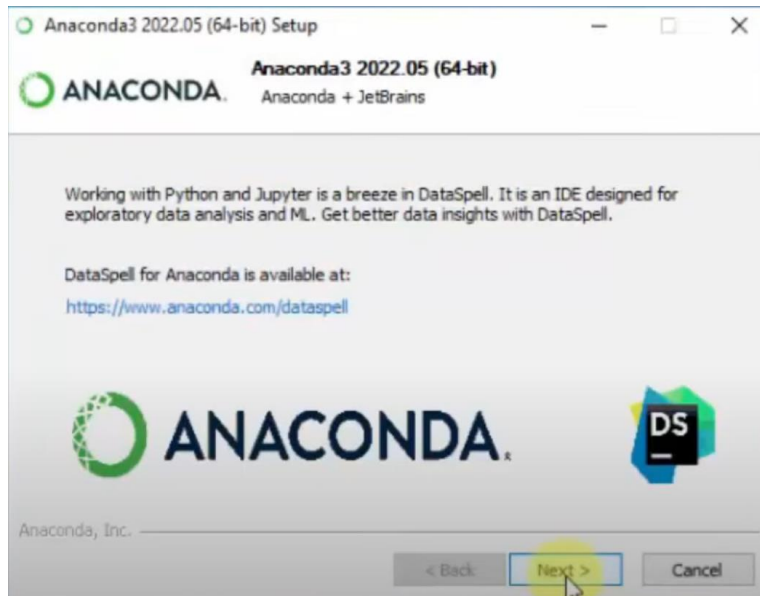
It will take 15 to 30 minutes for the installation



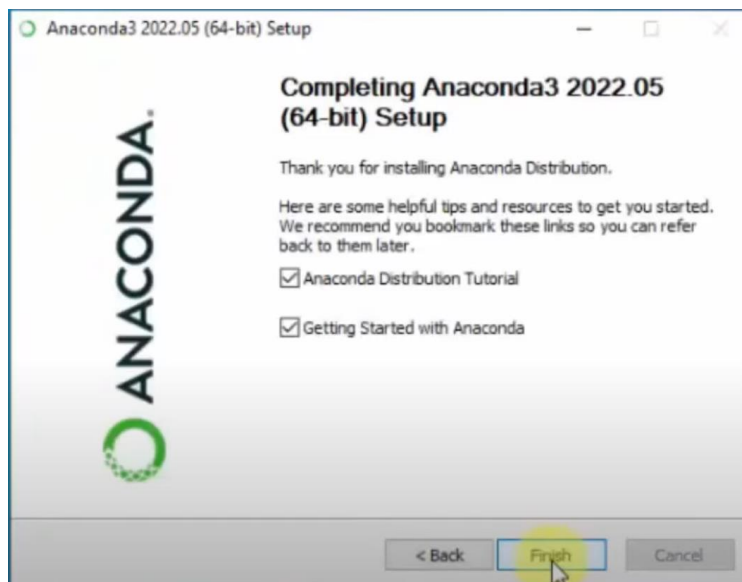
Click in Next button after installation is completed



**Click on Next**



**Click on finish**



**Next Page – How to use Jupyter notebook**

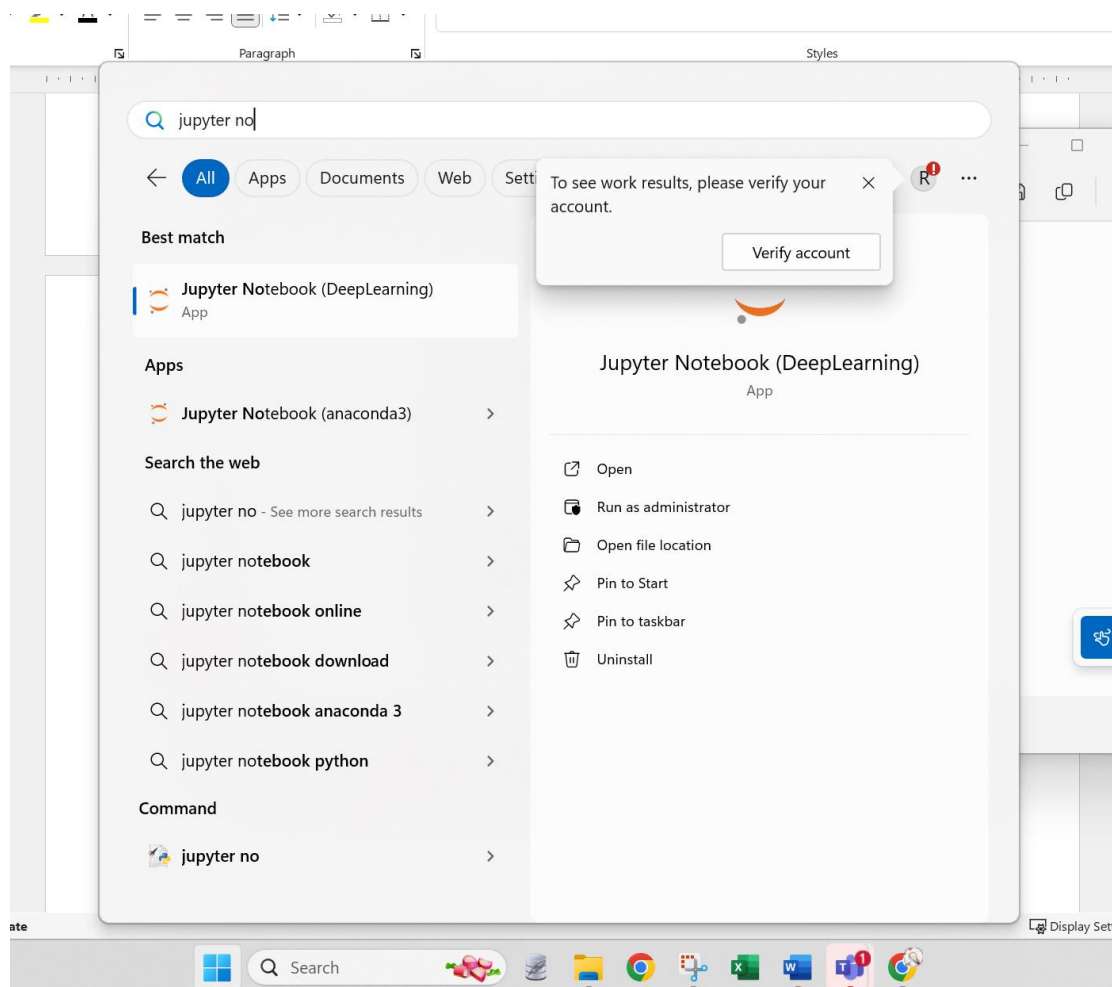
## Jupyter Notebook

- Jupyter Notebook is an open-source web application that allows you to create and share documents containing live code, equations, visualizations, and explanatory text.
- It provides a flexible and interactive environment for data analysis, experimentation, and collaboration.
- When you launch Jupyter Notebook, you'll see an interface where you can create notebooks. These notebooks consist of cells that can contain either code or formatted text.

Jupyter Notebook may be used within Anaconda environment because Anaconda provides a convenient way to install Jupyter and manage dependencies

### Steps to open Jupyter Notebook on your system:

#### 1. Search and open Jupyter Notebook app on your system



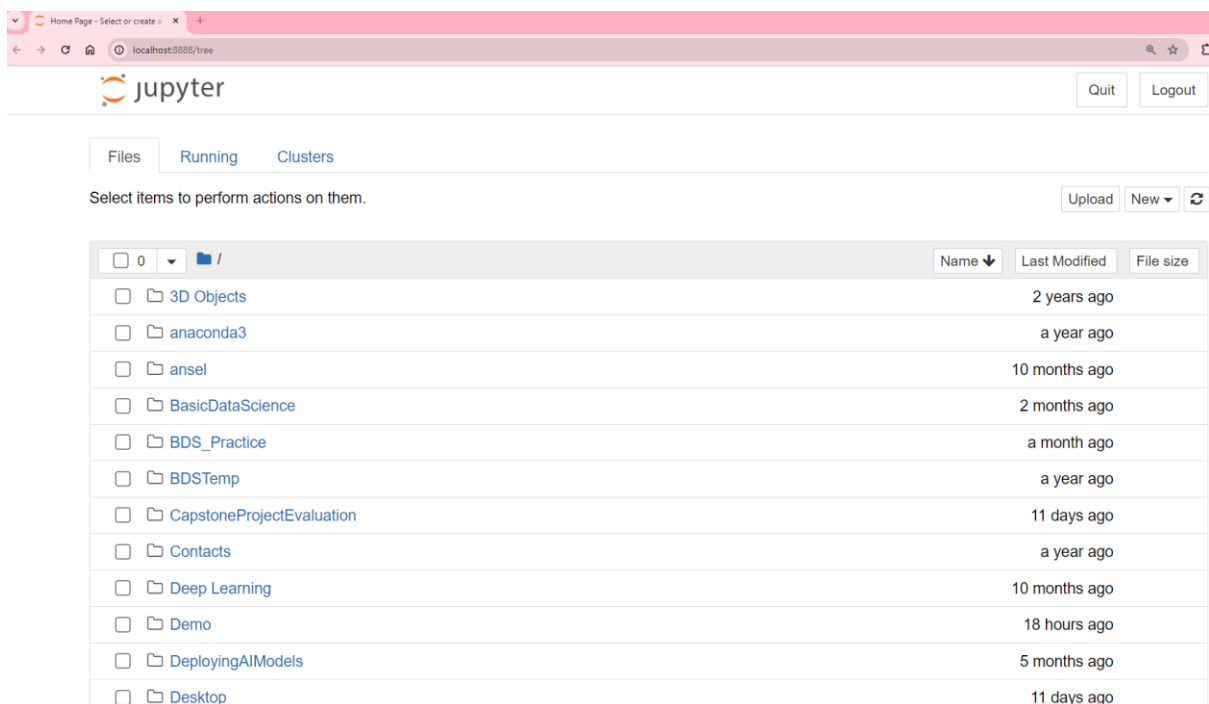
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## 2. The background kernel will start and Jupyter will launch in your default browser

```
Jupyter Notebook (DeepLearn) x + -
[I 15:33:03.731 NotebookApp] Serving notebooks from local directory: C:\Users\PREETI
[I 15:33:03.732 NotebookApp] Jupyter Notebook 6.5.2 is running at:
[I 15:33:03.733 NotebookApp] http://localhost:8888/?token=2a952d59cbd35c85ff5bf52efc953b8a40ca59d24bd0fbf0
[I 15:33:03.733 NotebookApp] or http://127.0.0.1:8888/?token=2a952d59cbd35c85ff5bf52efc953b8a40ca59d24bd0fbf0
[I 15:33:03.733 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 15:33:03.798 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/PREETI/AppData/Roaming/jupyter/runtime/nbserver-8840-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=2a952d59cbd35c85ff5bf52efc953b8a40ca59d24bd0fbf0
or http://127.0.0.1:8888/?token=2a952d59cbd35c85ff5bf52efc953b8a40ca59d24bd0fbf0
```

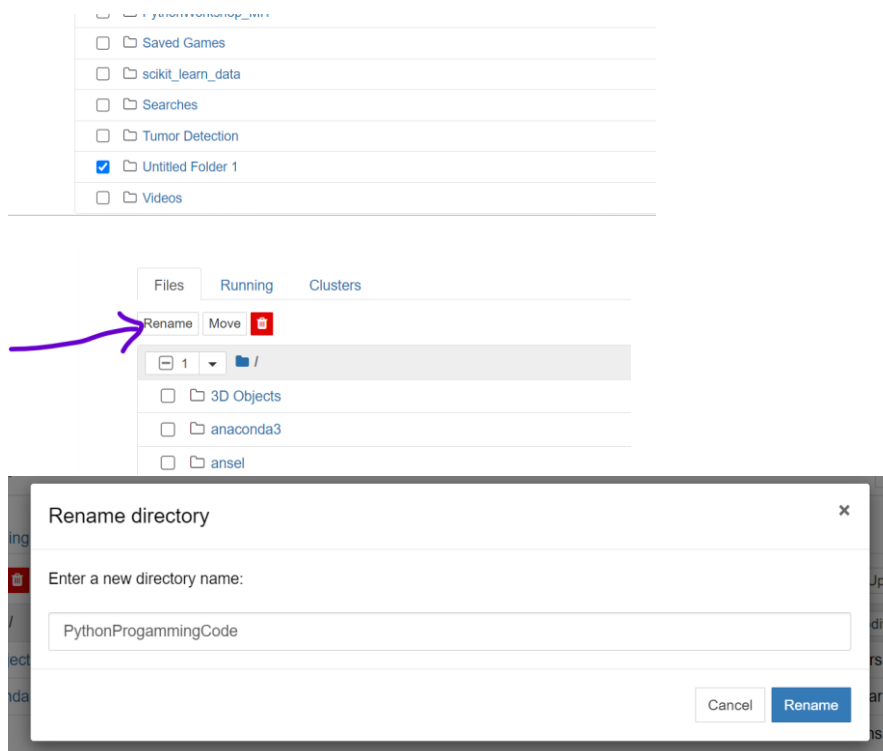


# Create Folder on Jupyter Notebook to keep your work organized

## 1. Click on New → Folder



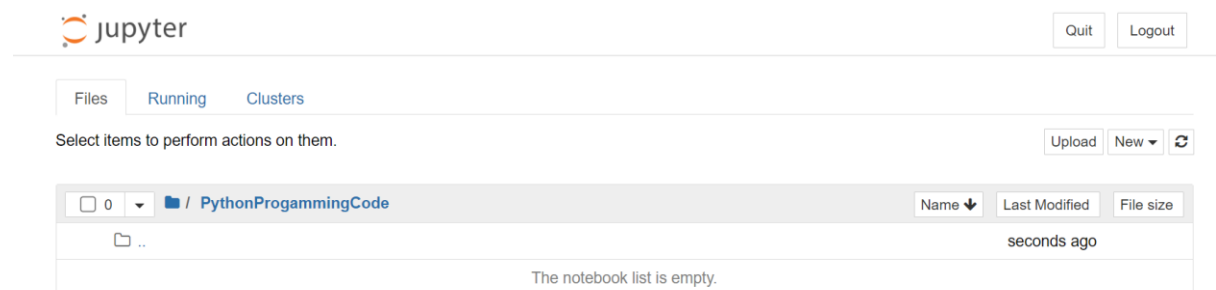
## 2. An Untitled Folder will be created, click the checkbox next to it and select Rename button to rename this folder



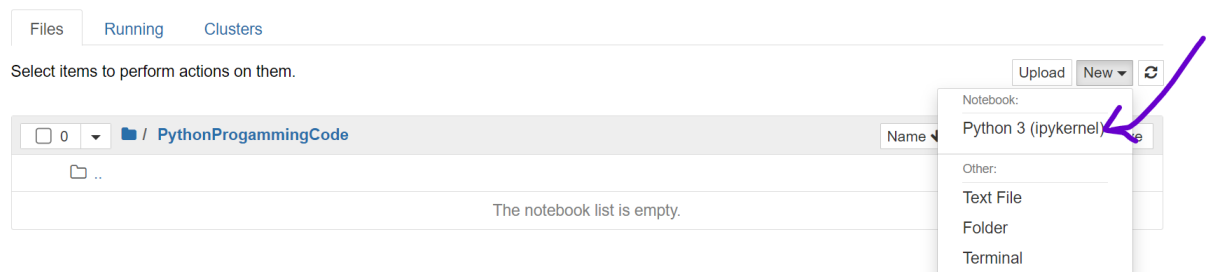


## Create new Notebook in the folder created

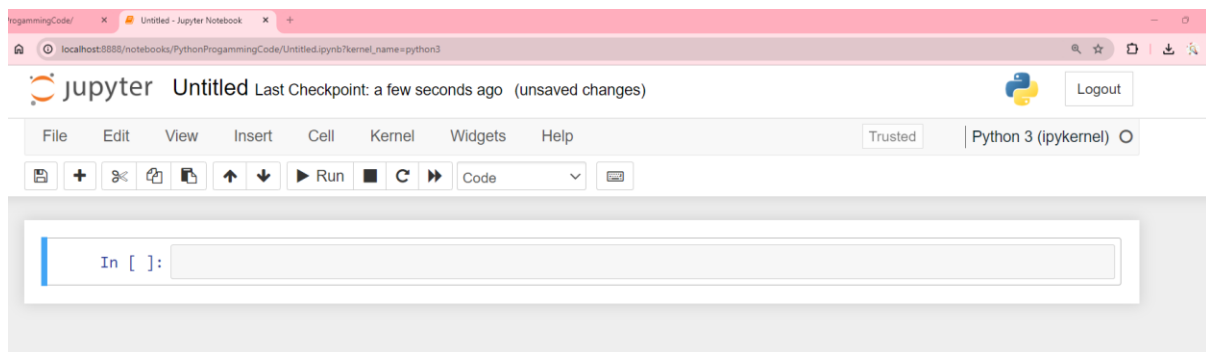
1. Click to open the folder you created; in very class you have to work on same folder.  
You may create further subfolders within it to keep your work organized.



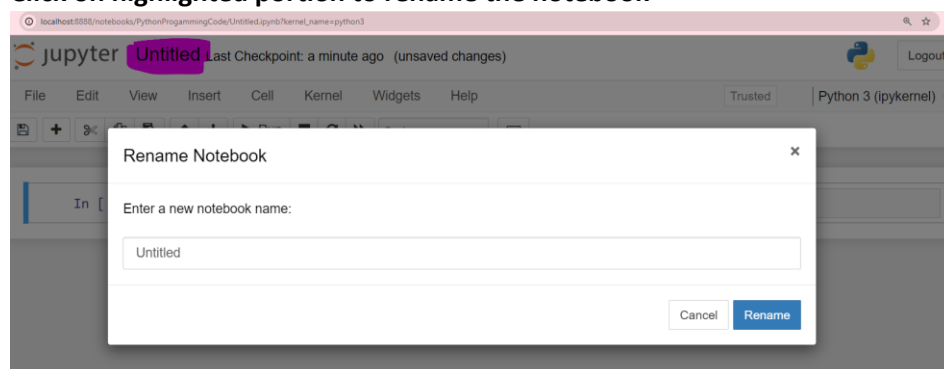
2. Click the new→Notebook OR Python3(ipkernel) option



3. In the new tab the Untitled-jupyter Notebook will open



4. Click on highlighted portion to rename the notebook



## Basic layout of Jupyter Notebook

The screenshot displays the Jupyter Notebook interface. At the top, the header shows the Jupyter logo, the notebook name 'MyfirstProgram', and the status 'Last Checkpoint: 21 minutes ago (autosaved)'. On the right, there is a Python logo and a 'Logout' button. Below the header is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. To the right of the menu bar, it indicates 'Trusted' and 'Python 3 (ipykernel)' with a refresh icon. A toolbar below the menu bar contains icons for saving, adding new cells, cutting, copying, pasting, undo, redo, running the current cell, interrupting the kernel, and restarting the kernel. A dropdown menu is set to 'Code'. The main area shows a code cell with the prompt 'In [ ]:' and a text box for code. Annotations with arrows point to various elements: 'Save your work' points to the save icon; 'Add new cells using this' points to the plus icon; 'Cell- You write your code here' points to the code input area; 'To order your cell' points to the up and down arrow icons; and 'To run current cell' points to the 'Run' button.