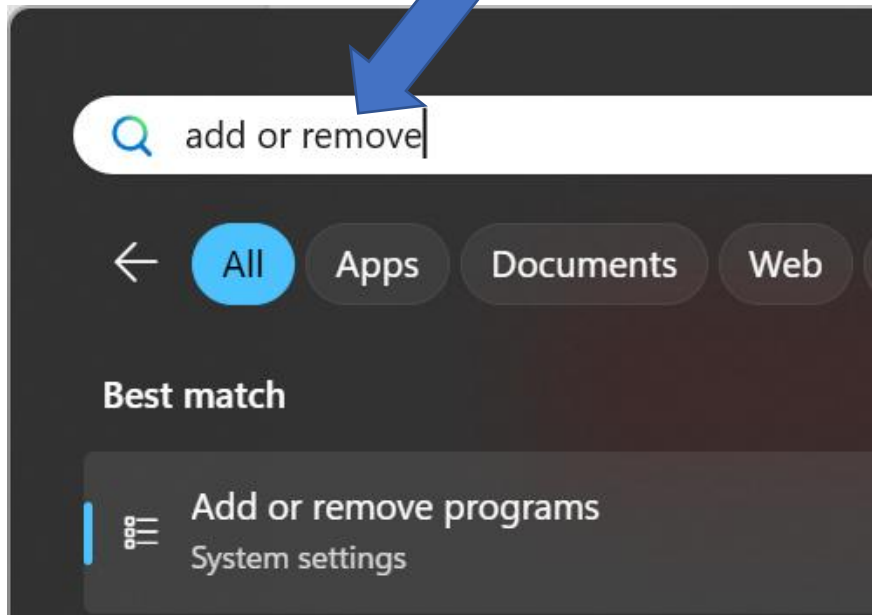


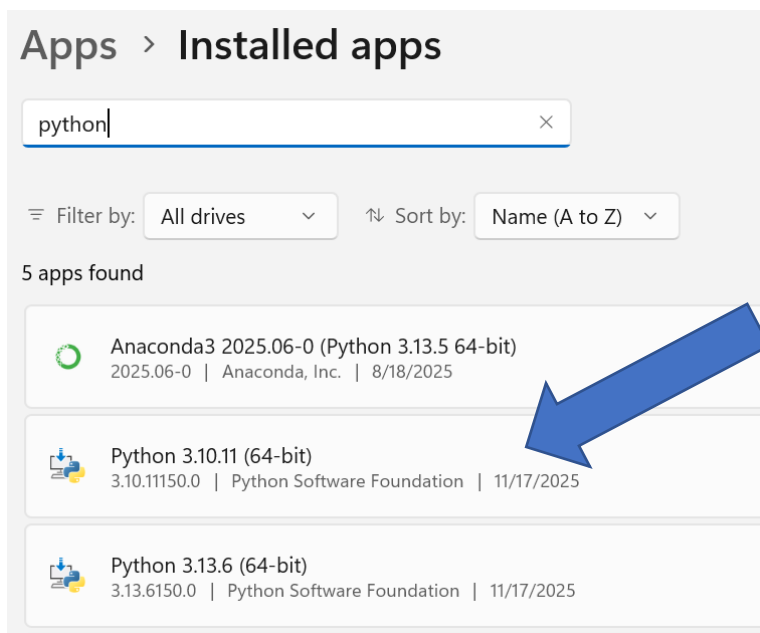
Set Up Python Development Environment

Check to see if Python is installed:

On Windows, open Add or Remove Programs:
Start > type "Add or Remove" > hit "Enter" key



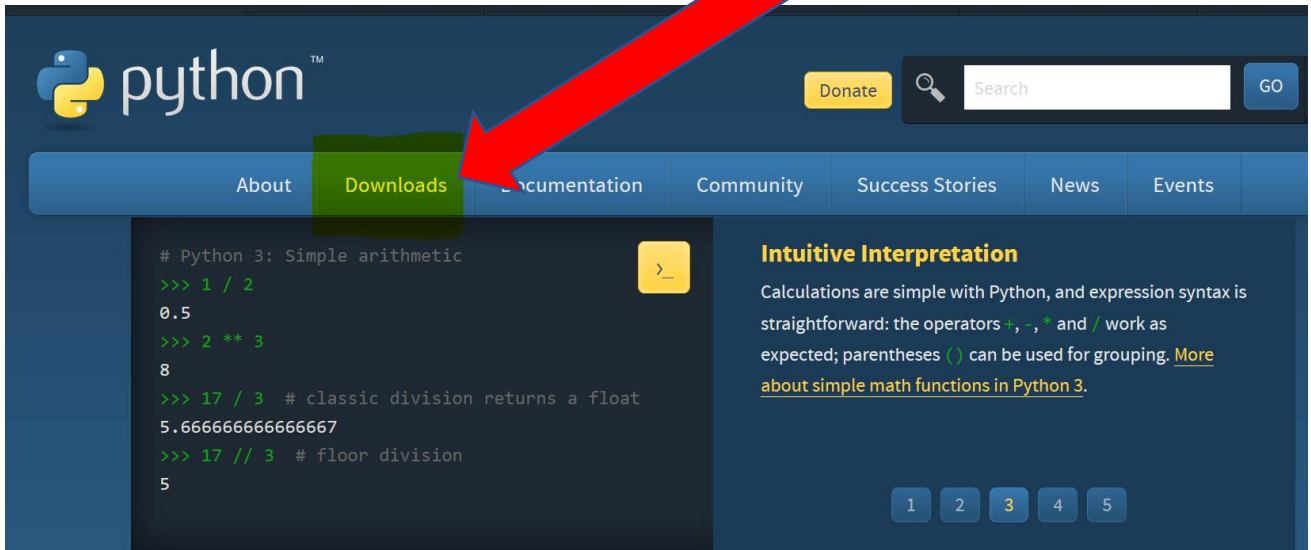
Search for Python:
Type "python" > hit "Enter" key



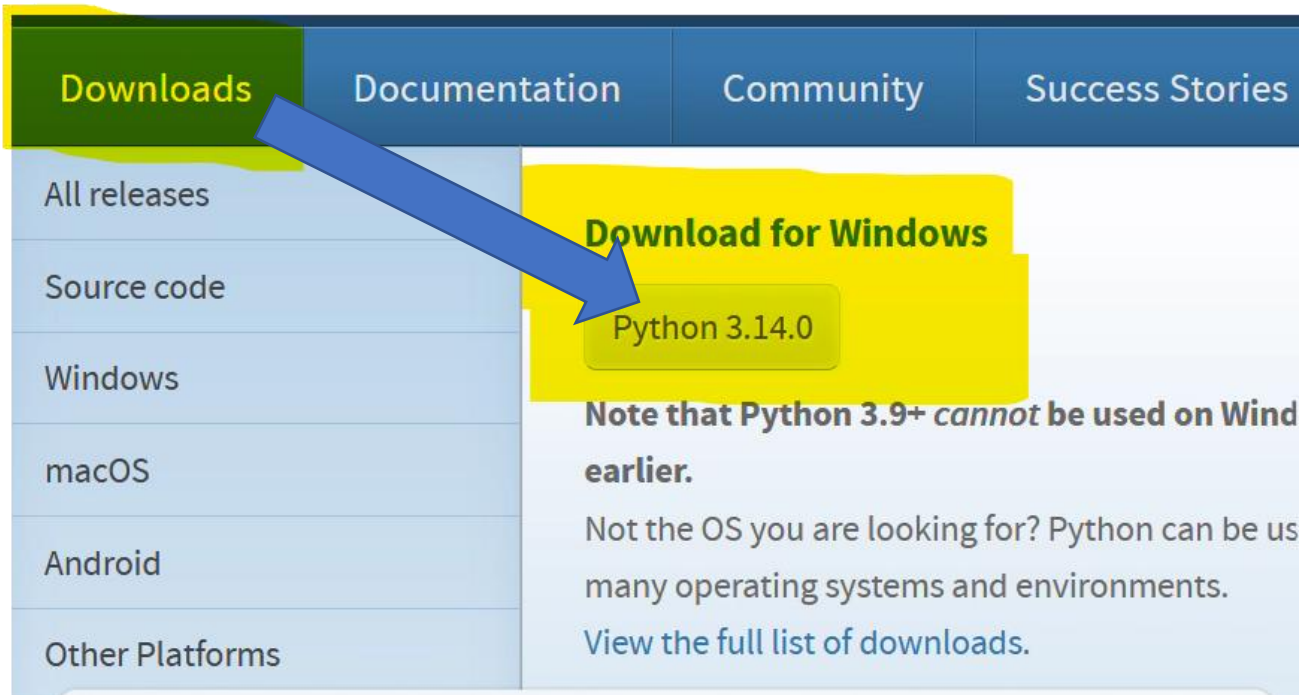
Remove older version of Python from Windows. After removal you can skip the Python install and go to Powershell section

Install Python and Required Libraries

Go to python.org > Downloads:



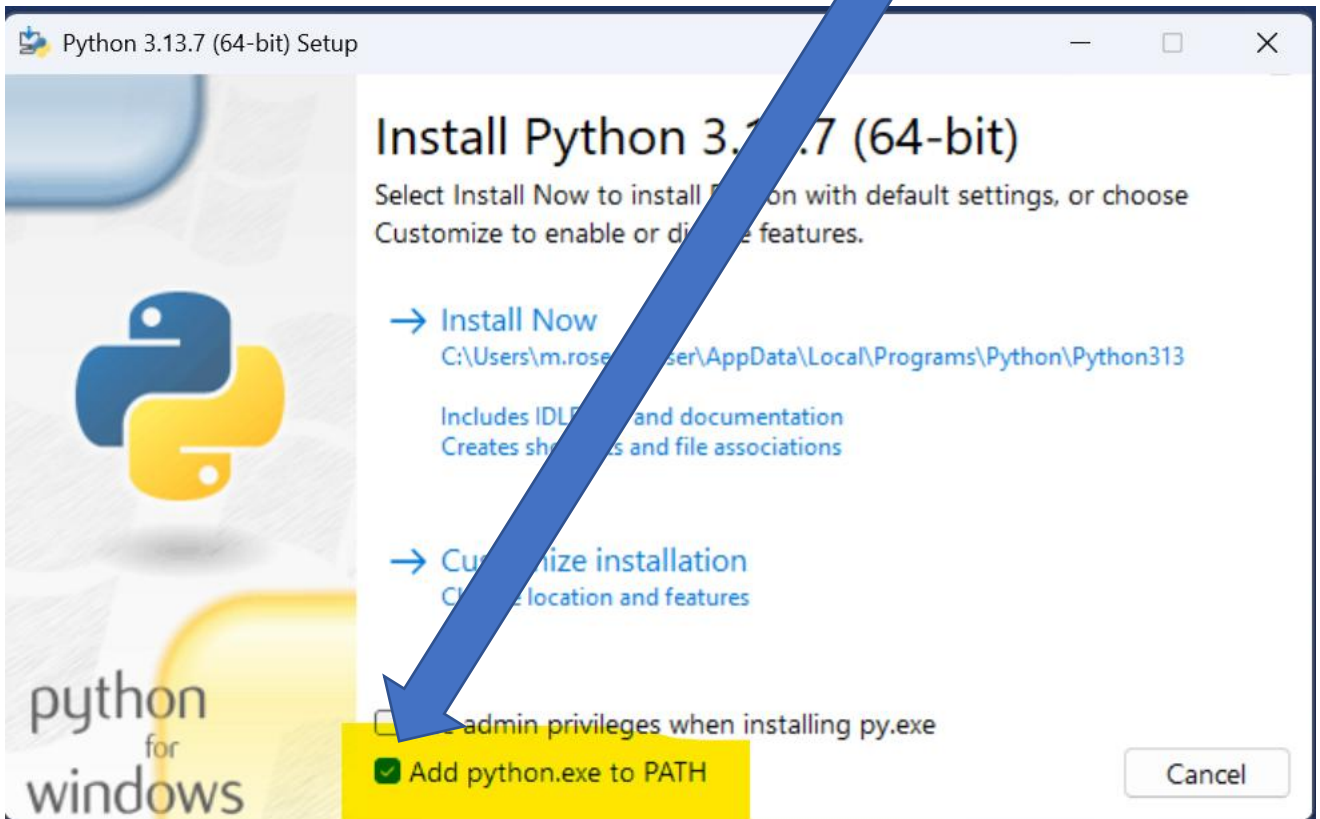
Download the latest version of Python:



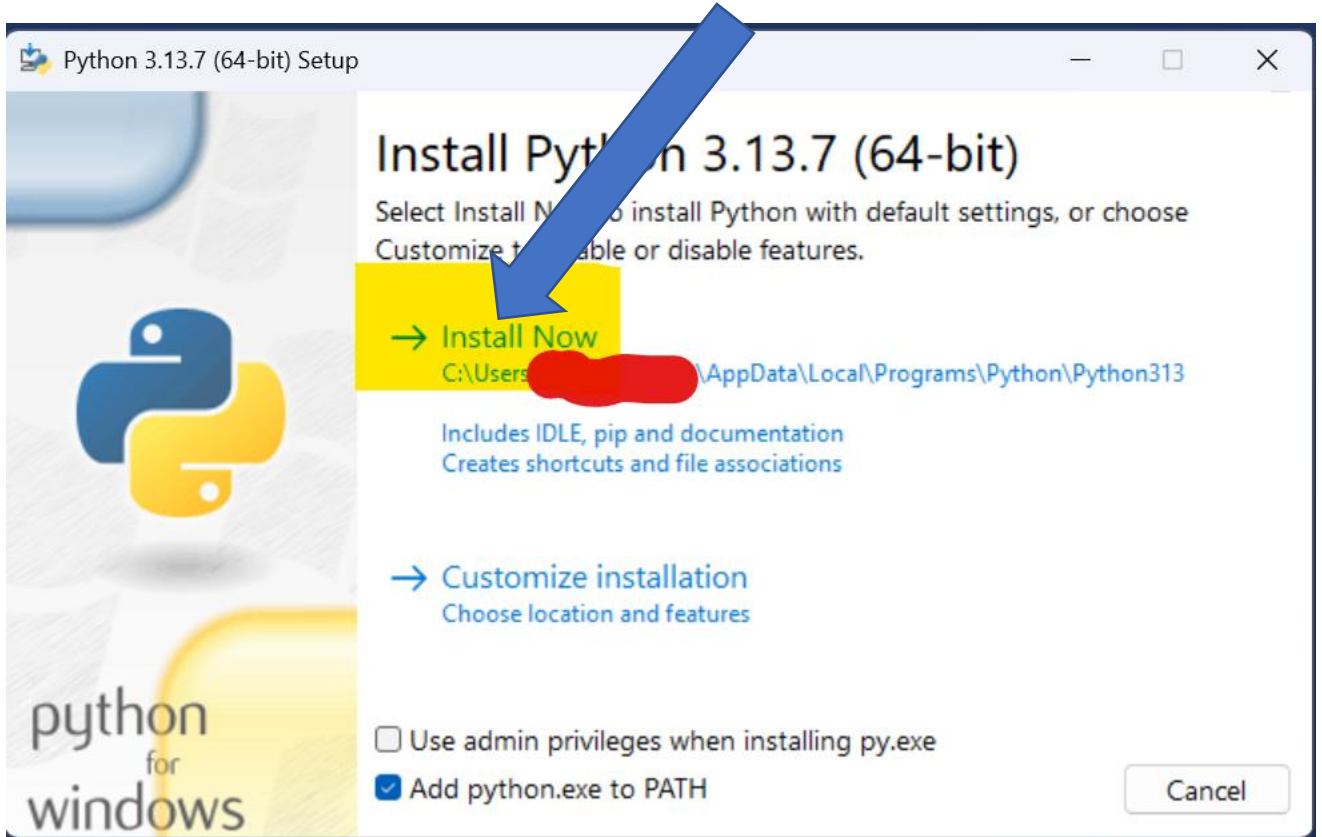
Double click on the exe file to start the install process:

python-3.13.7-amd64	9/19/2025 4:00 PM	Application
---------------------	-------------------	-------------

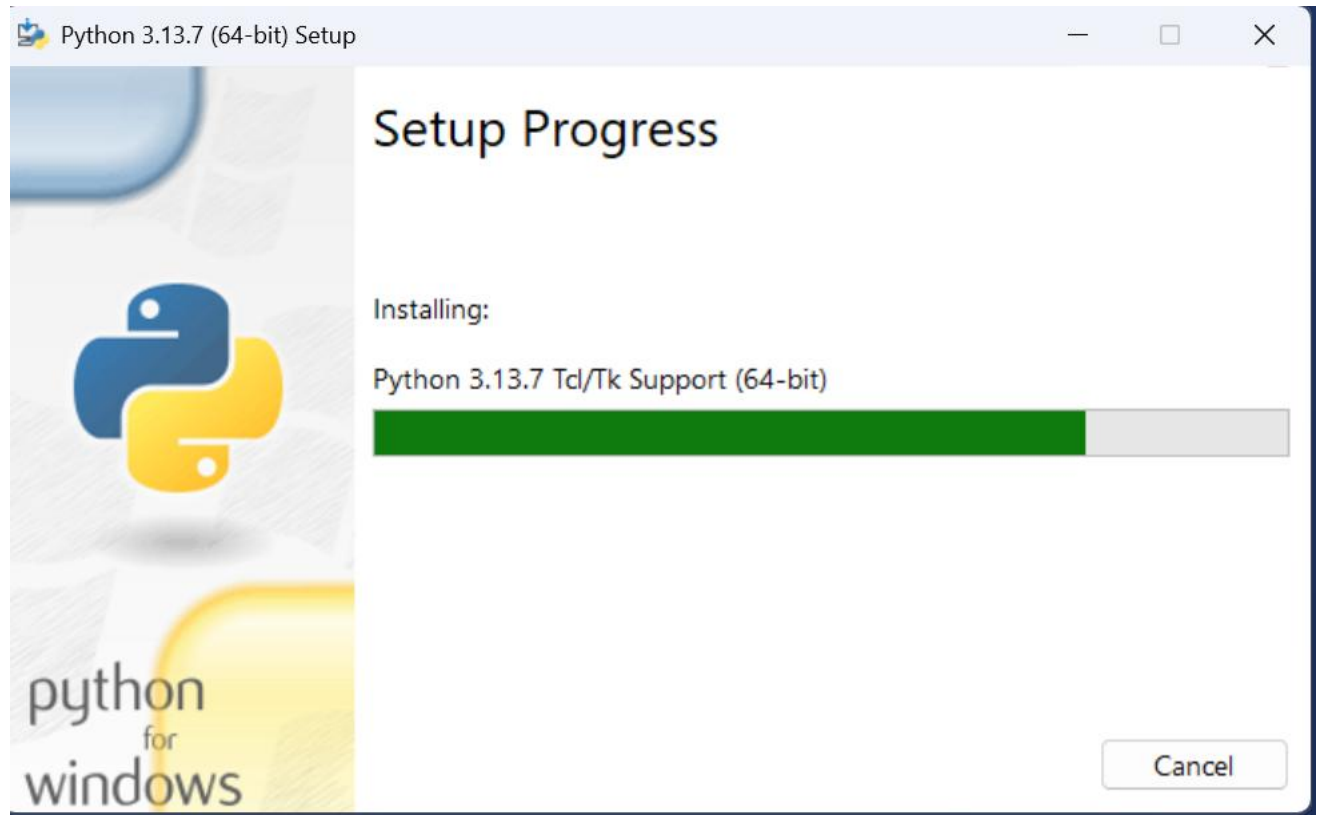
Be sure to check off the box for “Add python.exe to PATH”:



Click on "Install Now":

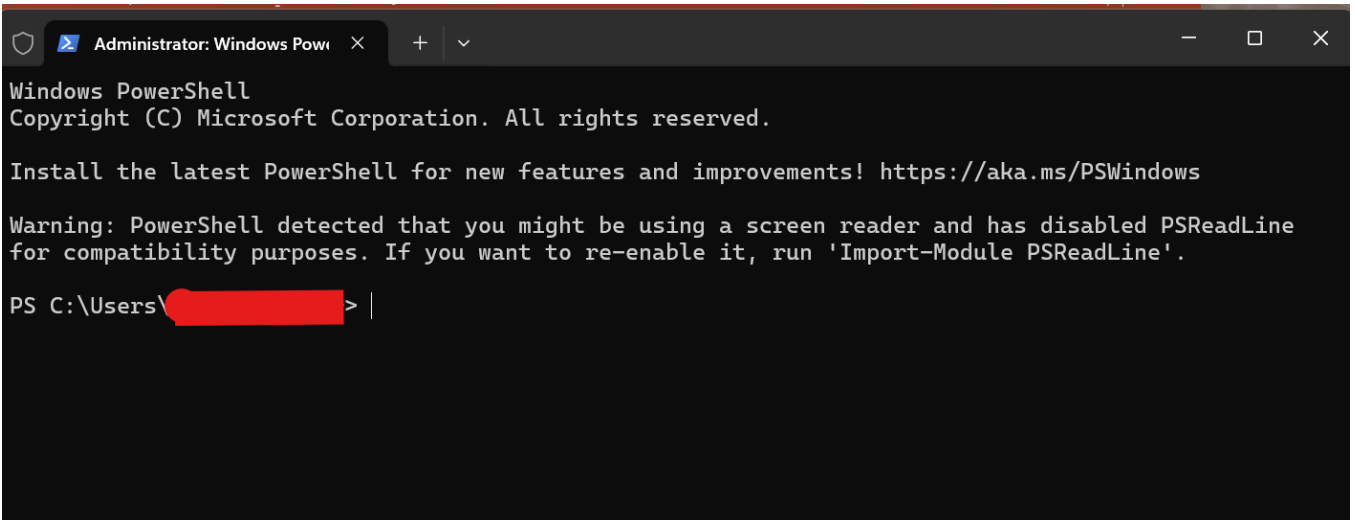
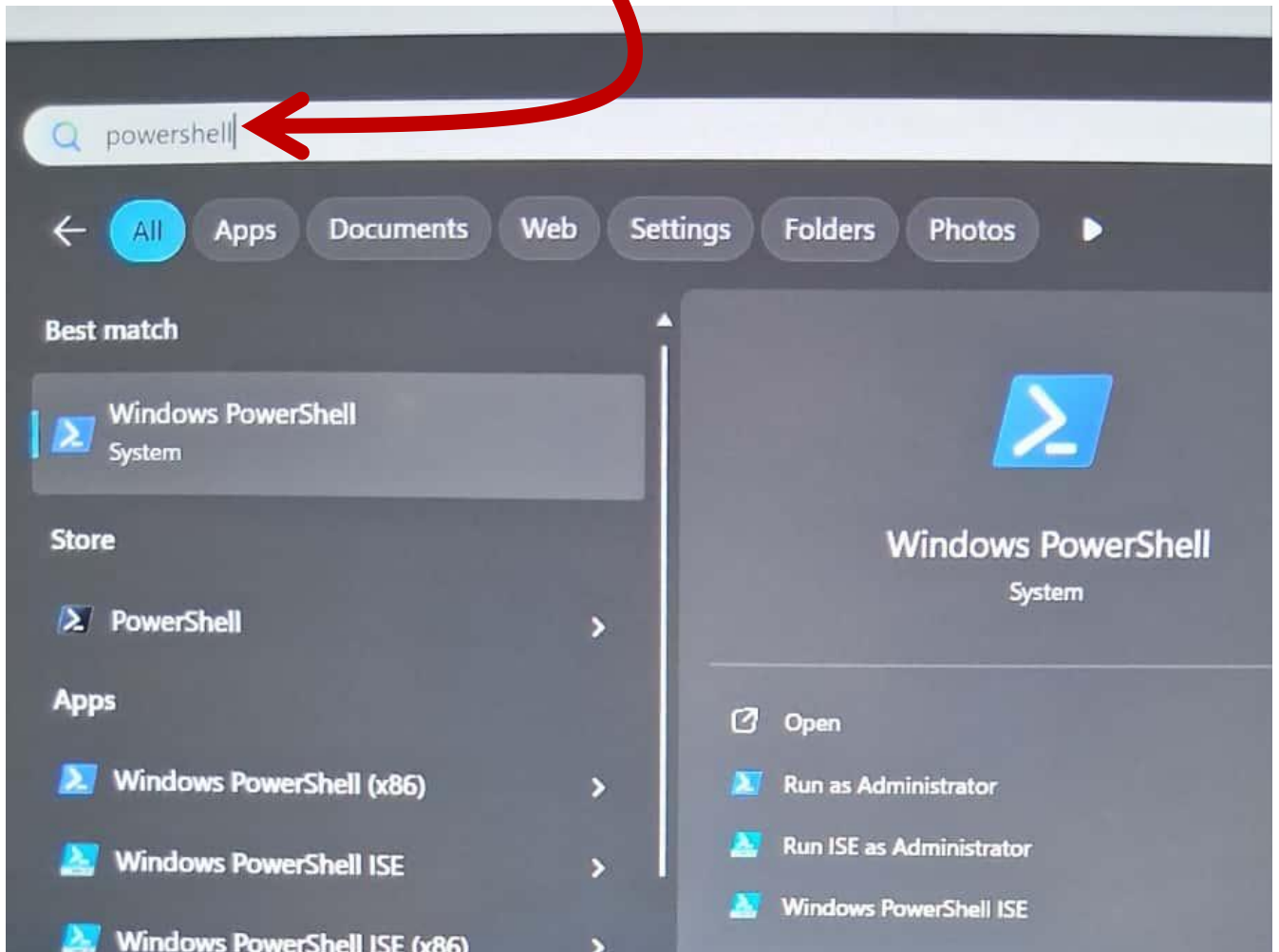


Allow Python to install:



User Powershell to install Python libraries

On Windows, open PowerShell prompt:
Start > type PowerShell > hit "Enter" key



Type: pip list > hit "Enter" key to confirm pip is installed

```
PS C:\Users\ [redacted] > pip list
Package Version
-----
pip      25.2
```

Now download and install the required libraries. After you hit enter on each command, pip will download then install each library. You will see a progress bar for the download and messages for the installation process

Type: pip install numpy > hit "Enter" key

```
Administrator: Windows PowerShell
PS C:\Users\ [redacted] > pip install numpy
Collecting numpy
  Downloading numpy-2.3.5-cp313-cp313-win_amd64.whl.metadata (60 kB)
  Downloading numpy-2.3.5-cp313-cp313-win_amd64.whl (12.8 MB)
  _____ 12.8/12.8 MB 12.8 MB/s 0:00:00
Installing collected packages: numpy
Successfully installed numpy-2.3.5
```

Type: pip install pandas > hit "Enter" key

```
PS C:\Users\ [redacted] > pip install pandas
Collecting pandas
  Downloading pandas-2.3.3-cp313-cp313-win_amd64.whl.metadata (19 kB)
Requirement already satisfied: numpy>=1.26.0 in c:\program files\python313\lib\site-packages (from pandas) (2.3.5)
Collecting python-dateutil>=2.8.2 (from pandas)
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2020.1 (from pandas)
  Downloading pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata>=2022.7 (from pandas)
  Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting six>=1.5 (from python-dateutil>=2.8.2->pandas)
  Downloading six-1.17.0-py2.py3-none-any.whl.metadata (1.7 kB)
  _____ 11.0/11.0 MB 17.5 MB/s 0:00:00
Downloading pandas-2.3.3-cp313-cp313-win_amd64.whl (11.0 MB)
Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)
Downloading pytz-2025.2-py2.py3-none-any.whl (509 kB)
Downloading six-1.17.0-py2.py3-none-any.whl (11 kB)
Downloading tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Installing collected packages: pytz, tzdata, six, python-dateutil, pandas
Successfully installed pandas-2.3.3 python-dateutil-2.9.0.post0 pytz-2025.2 six-1.17.0 tzdata-2025.2
```

Type: pip install matplotlib > hit "Enter" key

```
Downloading matplotlib-3.10.7-cp313-cp313-win_amd64.whl (8.1 MB)
 8.1/8.1 MB 13.4 MB/s 0:00:00
Downloading contourpy-1.3.3-cp313-cp313-win_amd64.whl (226 kB)
Downloading cycler-0.12.1-py3-none-any.whl (8.3 kB)
Downloading fonttools-4.60.1-cp313-cp313-win_amd64.whl (2.3 MB)
 2.3/2.3 MB 11.6 MB/s 0:00:00
Downloading kiwisolver-1.4.9-cp313-cp313-win_amd64.whl (73 kB)
Downloading packaging-25.0-py3-none-any.whl (66 kB)
Downloading pillow-12.0.0-cp313-cp313-win_amd64.whl (7.0 MB)
 7.0/7.0 MB 13.5 MB/s 0:00:00
Downloading pyparsing-3.2.5-py3-none-any.whl (113 kB)
Installing collected packages: pyparsing, pillow, packaging, kiwisolver, fonttools, cycler, contourpy, matplotlib
Successfully installed contourpy-1.3.3 cycler-0.12.1 fonttools-4.60.1 kiwisolver-1.4.9 matplotlib-3.10.7 packaging-25.0
pillow-12.0.0 pyparsing-3.2.5
```

Type: pip list > hit "Enter" key to ensure numpy, pandas and matplotlib are all installed

Administrator: Windows PowerShell

```
PS C:\Users\ [redacted] > pip list
```

Package	Version
contourpy	1.3.3
cycler	0.12.1
fonttools	4.60.1
kiwisolver	1.4.9
matplotlib	3.10.7
numpy	2.3.5
packaging	25.0
pandas	2.3.3
pillow	12.0.0
pip	25.2
pyparsing	3.2.5
python-dateutil	2.9.0.post0
pytz	2025.2
six	1.17.0
tzdata	2025.2

matplotlib

numpy

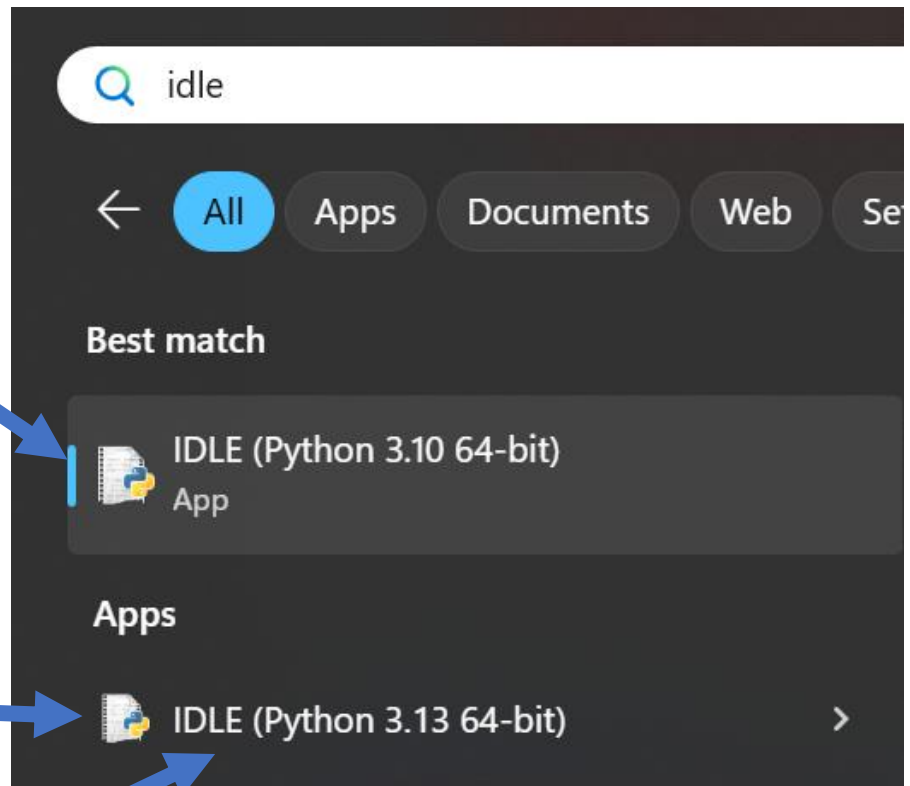
pandas

To start working with Python:
Start > Type: idle

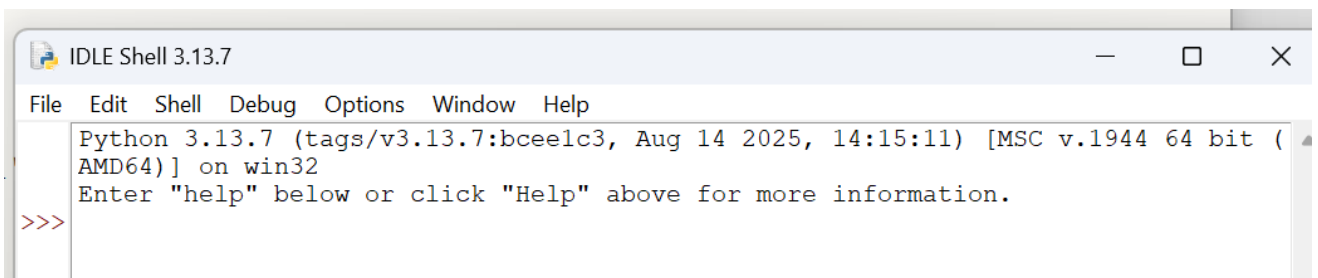
IDLE from
the old
Python install

IDLE from
the new
Python install

Click on IDLE
from new
Python install

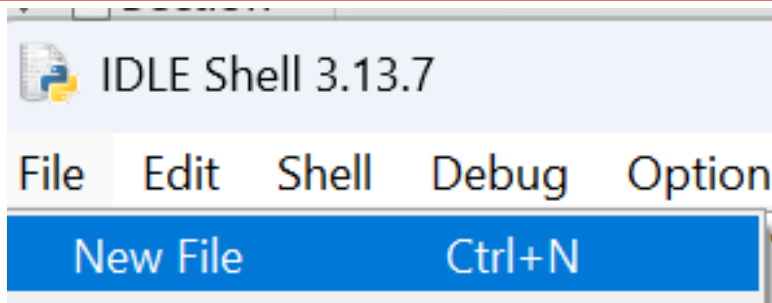


IDLE shell will open:



To confirm that the libraries are installed

File > New File:



Type the following into the text editor and save it as: test.py

```
test.py - C:/Program Files/Python313/test.py (3.13.7)
File Edit Format Run Options Window Help
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

print ("Libraries loaded successfully.")
print ("Your system is ready to generate charts and graphs.")
```

After saving the file, hit F5 to run the program to confirm the libraries have been installed:

```
IDLE Shell 3.13.7
File Edit Shell Debug Options Window Help
Python 3.13.7 (tags/v3.13.7:bceelc3, Aug 14 2025, 14:15:11) [MSC
v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

>>>
===== RESTART: C:/Program Files/Python313/test.py =====
Libraries loaded successfully.

>>>
===== RESTART: C:/Program Files/Python313/test.py =====
Libraries loaded successfully.
Your system is ready to generate charts and graphs.

>>>
```

Now you can use an AI like Claude.ai to generate code to create graphs and charts for your dataset.