



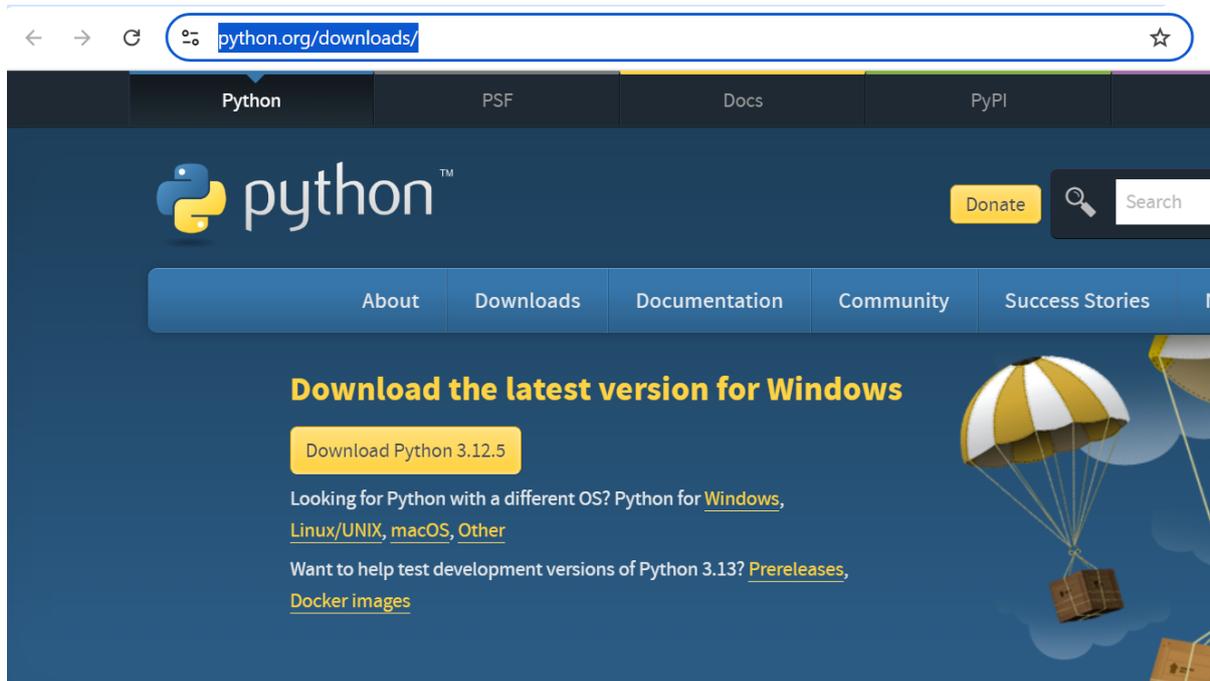
**Python and Jupyter Notebook
Installation Guide**

Python Installation

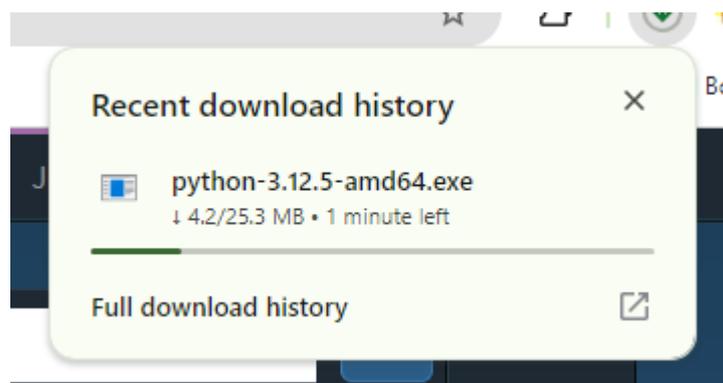
1. Click on the following link to download python

<https://www.python.org/downloads/>

The following page appears. Click on the link **Download Python 3.12.5**



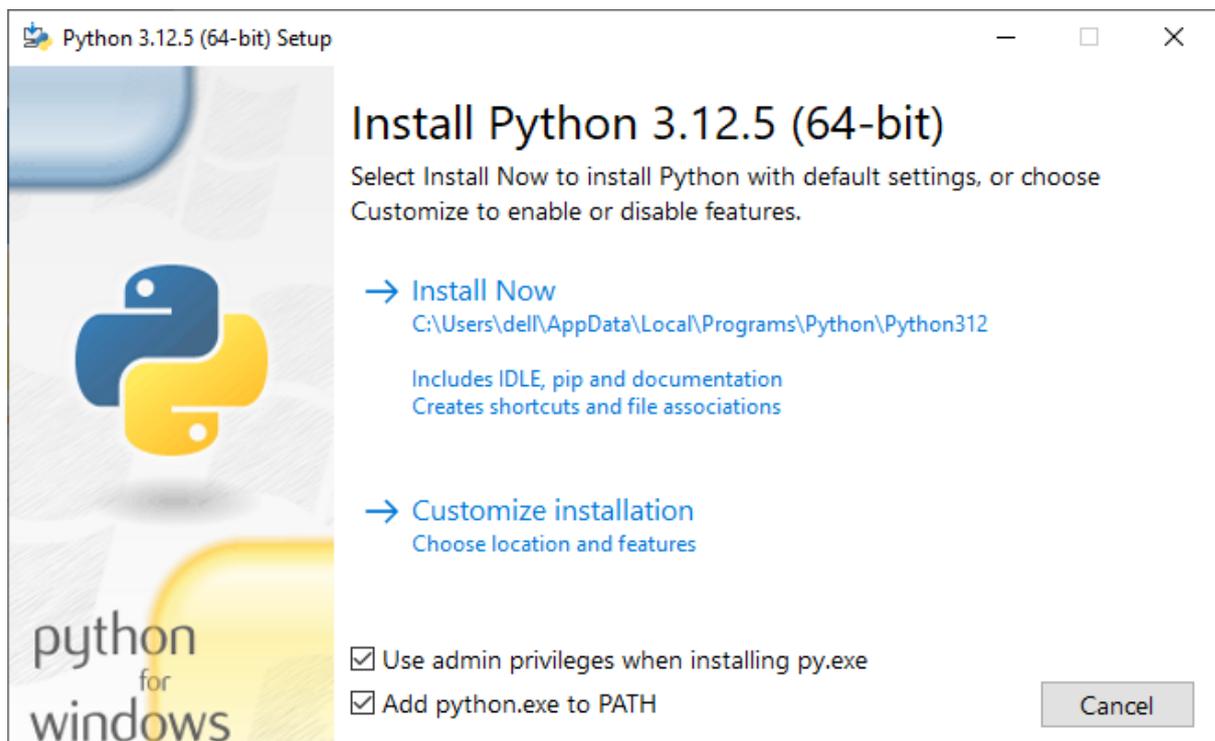
2. The installation file will start downloading in the downloads folder.



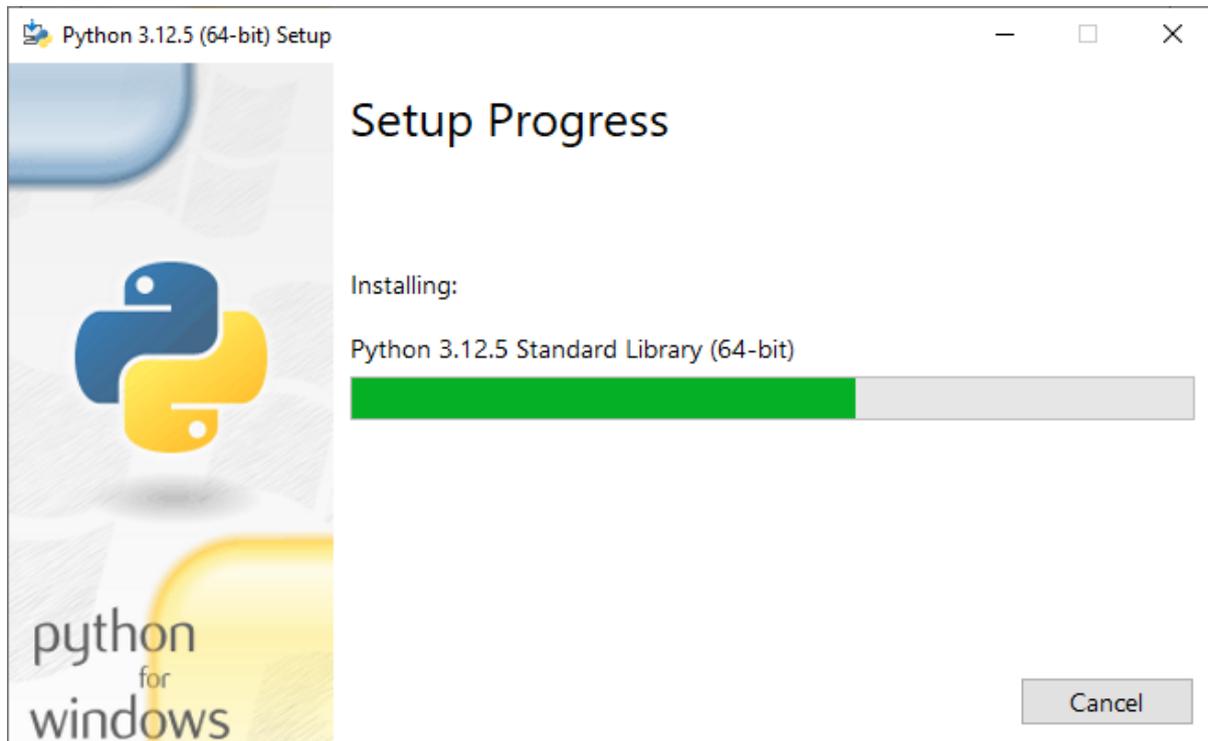
3. Browse the location of the downloaded file. Double click on it to start the installation process



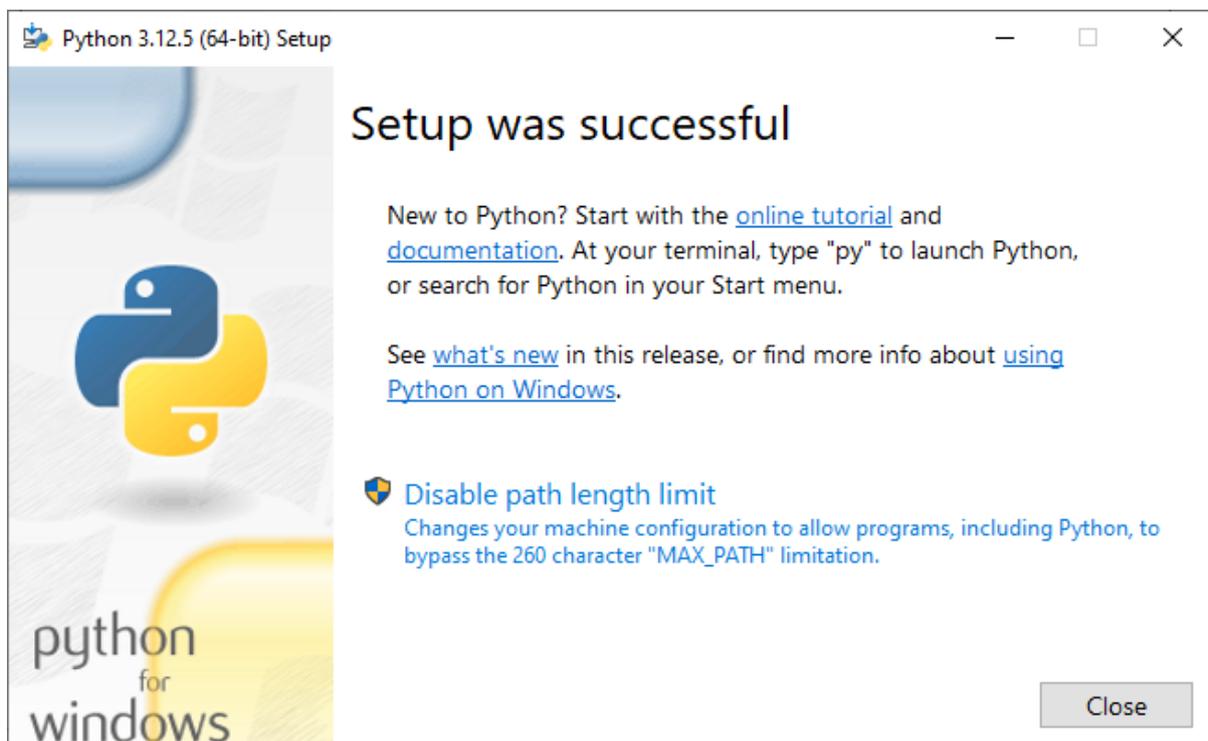
4. The following screen appears. Click on **Install Now**



5. Installation is in progress.

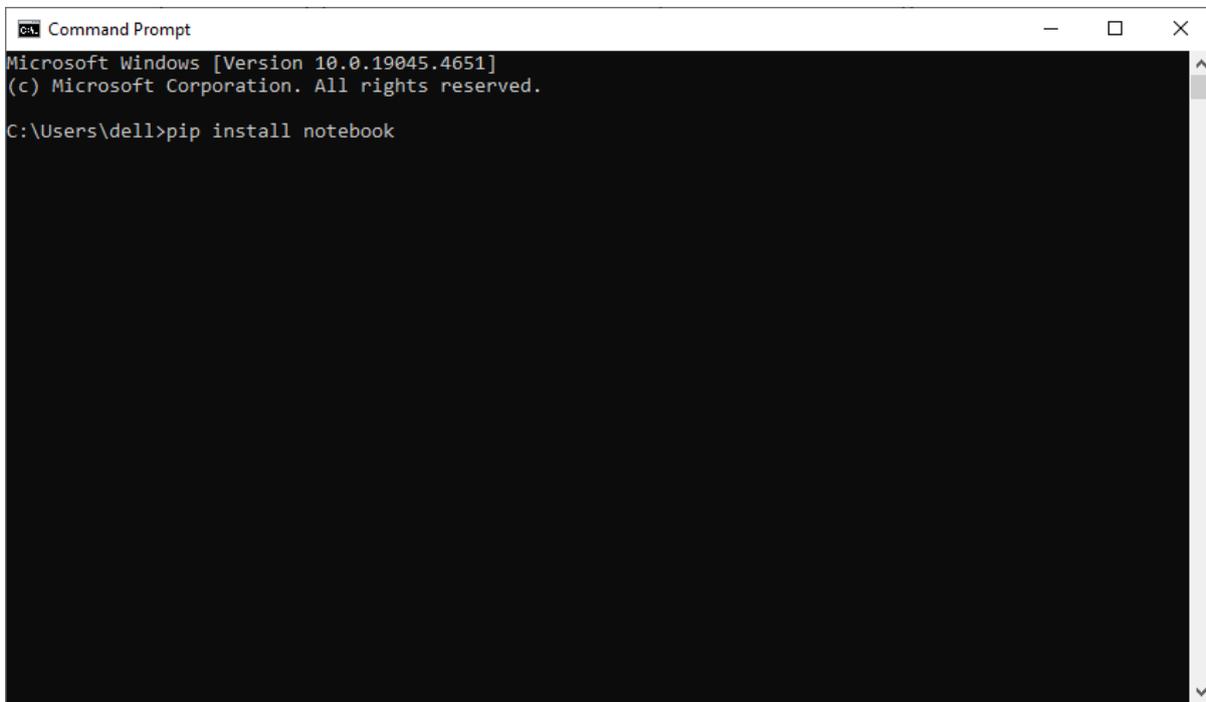


6. The following screen appears where Python installation was successful.



Jupyter Notebook Installation

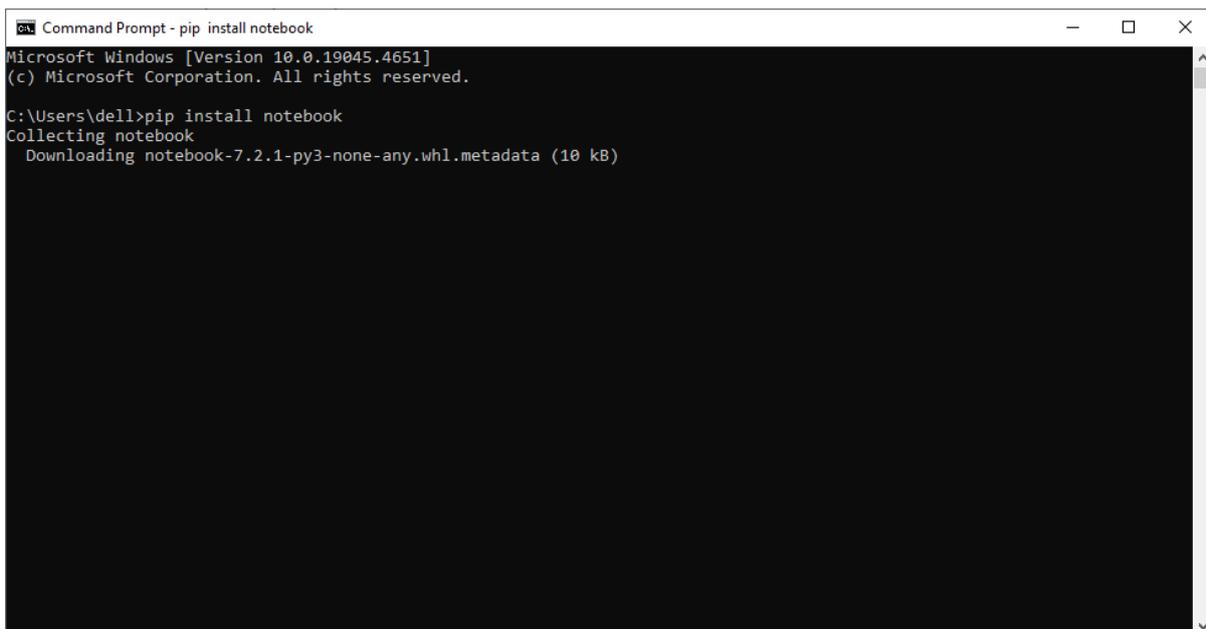
1. Launch the command prompt and type the command `pip install notebook`



```
Command Prompt
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dell>pip install notebook
```

2. The following screen appears, where it starts downloading and installs



```
Command Prompt - pip install notebook
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dell>pip install notebook
Collecting notebook
  Downloading notebook-7.2.1-py3-none-any.whl.metadata (10 kB)
```

3. The following screen shows that the installation is complete

```

Command Prompt
Downloading pure_eval-0.2.3-py3-none-any.whl (11 kB)
Downloading pycparser-2.22-py3-none-any.whl (117 kB)
Downloading wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
Downloading types_python_dateutil-2.9.0.20240316-py3-none-any.whl (9.7 kB)
Installing collected packages: webencodings, wcwidth, pywin32, pure-eval, fastjsonschema, websocket-client, webcolors, urrlib3, uri-template, types-python-dateutil, traitlets, tornado, tinycss2, soupsieve, sniffio, six, setuptools, send2trash, rpds-py, rfc3986-validator, pyzmq, pyyaml, pywinpty, python-json-logger, pygments, pycparser, psutil, prompt-toolkit, prometheus-client, platformdirs, parso, pandocfilters, packaging, overrides, nest-asyncio, mistune, MarkupSafe, jupyterlab-pygments, jsonpointer, json5, idna, h11, fqdn, executing, defusedxml, decorator, debugpy, colorama, charset-normalizer, certifi, babel, attrs, async-lru, terminado, rfc3339-validator, requests, referencing, python-dateutil, matplotlib-inline, jupyter-core, jinja2, jedi, httpcore, comm, cffi, bleach, beautifulsoup4, asttokens, anyio, stack-data, jupyter-server-terminals, jupyter-client, jsonschema-specifications, httpx, arrow, argon2-cffi-bindings, jsonschema, isoduration, ipython, argon2-cffi, nbformat, ipykernel, nbclient, jupyter-events, nbconvert, jupyter-server, notebook-shim, jupyterlab-server, jupyter-lsp, jupyterlab, notebook
Successfully installed MarkupSafe-2.1.5 anyio-4.4.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 asttokens-2.4.1 async-lru-2.0.4 attrs-24.2.0 babel-2.16.0 beautifulsoup4-4.12.3 bleach-6.1.0 certifi-2024.7.4 cffi-1.17.0 charset-normalizer-3.3.2 colorama-0.4.6 comm-0.2.2 debugpy-1.8.5 decorator-5.1.1 defusedxml-0.7.1 executing-2.0.1 fastjsonschema-2.20.0 fqdn-1.5.1 h11-0.14.0 httpcore-1.0.5 httpx-0.27.0 idna-3.7 ipykernel-6.29.5 ipython-8.26.0 isoduration-20.11.0 jedi-0.19.1 jinja2-3.1.4 json5-0.9.25 jsonpointer-3.0.0 jsonschema-4.23.0 jsonschema-specifications-2023.12.1 jupyter-client-8.6.2 jupyter-core-5.7.2 jupyter-events-0.10.0 jupyter-lsp-2.2.5 jupyter-server-2.14.2 jupyter-server-terminals-0.5.3 jupyterlab-4.2.4 jupyterlab-pygments-0.3.0 jupyterlab-server-2.27.3 matplotlib-inline-0.1.7 mistune-3.0.2 nbclient-0.10.0 nbconvert-7.16.4 nbformat-5.10.4 nest-asyncio-1.6.0 notebook-7.2.1 notebook-shim-0.2.4 overrides-7.7.0 packaging-24.1 pandocfilters-1.5.1 parso-0.8.4 platformdirs-4.2.2 prometheus-client-0.20.0 prompt-toolkit-3.0.47 psutil-6.0.0 pure-eval-0.2.3 pycparser-2.22 pygments-2.18.0 python-dateutil-2.9.0.post0 python-json-logger-2.0.7 pywin32-306 pywinpty-2.0.13 pyyaml-6.0.2 pyzmq-26.1.0 referencing-0.35.1 requests-2.32.3 rfc3339-validator-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.20.0 send2trash-1.8.3 setuptools-72.2.0 six-1.16.0 sniffio-1.3.1 soupsieve-2.6 stack-data-0.6.3 terminado-0.18.1 tinycss2-1.3.0 tornado-6.4.1 traitlets-5.14.3 types-python-dateutil-2.9.0.20240316 uri-template-1.3.0 urrlib3-2.2.2 wcwidth-0.2.13 webcolors-24.8.0 webencodings-0.5.1 websocket-client-1.8.0
C:\Users\dell>

```

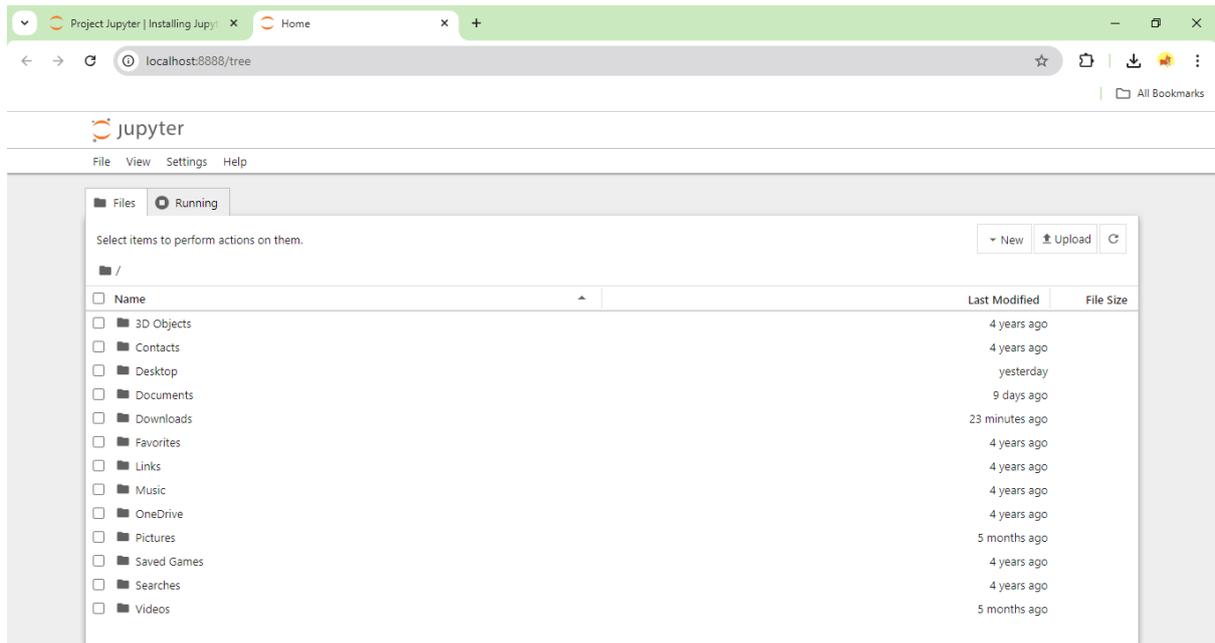
4. Type the command Jupyter notebook

```

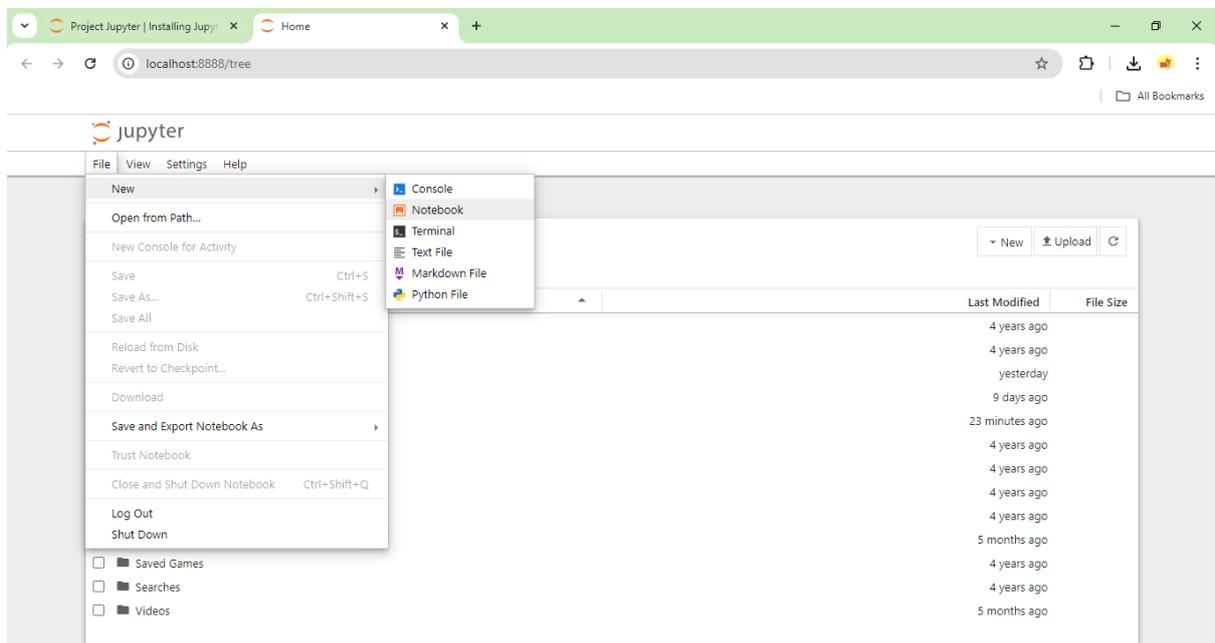
Command Prompt
Downloading pure_eval-0.2.3-py3-none-any.whl (11 kB)
Downloading pycparser-2.22-py3-none-any.whl (117 kB)
Downloading wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
Downloading types_python_dateutil-2.9.0.20240316-py3-none-any.whl (9.7 kB)
Installing collected packages: webencodings, wcwidth, pywin32, pure-eval, fastjsonschema, websocket-client, webcolors, urrlib3, uri-template, types-python-dateutil, traitlets, tornado, tinycss2, soupsieve, sniffio, six, setuptools, send2trash, rpds-py, rfc3986-validator, pyzmq, pyyaml, pywinpty, python-json-logger, pygments, pycparser, psutil, prompt-toolkit, prometheus-client, platformdirs, parso, pandocfilters, packaging, overrides, nest-asyncio, mistune, MarkupSafe, jupyterlab-pygments, jsonpointer, json5, idna, h11, fqdn, executing, defusedxml, decorator, debugpy, colorama, charset-normalizer, certifi, babel, attrs, async-lru, terminado, rfc3339-validator, requests, referencing, python-dateutil, matplotlib-inline, jupyter-core, jinja2, jedi, httpcore, comm, cffi, bleach, beautifulsoup4, asttokens, anyio, stack-data, jupyter-server-terminals, jupyter-client, jsonschema-specifications, httpx, arrow, argon2-cffi-bindings, jsonschema, isoduration, ipython, argon2-cffi, nbformat, ipykernel, nbclient, jupyter-events, nbconvert, jupyter-server, notebook-shim, jupyterlab-server, jupyter-lsp, jupyterlab, notebook
Successfully installed MarkupSafe-2.1.5 anyio-4.4.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 asttokens-2.4.1 async-lru-2.0.4 attrs-24.2.0 babel-2.16.0 beautifulsoup4-4.12.3 bleach-6.1.0 certifi-2024.7.4 cffi-1.17.0 charset-normalizer-3.3.2 colorama-0.4.6 comm-0.2.2 debugpy-1.8.5 decorator-5.1.1 defusedxml-0.7.1 executing-2.0.1 fastjsonschema-2.20.0 fqdn-1.5.1 h11-0.14.0 httpcore-1.0.5 httpx-0.27.0 idna-3.7 ipykernel-6.29.5 ipython-8.26.0 isoduration-20.11.0 jedi-0.19.1 jinja2-3.1.4 json5-0.9.25 jsonpointer-3.0.0 jsonschema-4.23.0 jsonschema-specifications-2023.12.1 jupyter-client-8.6.2 jupyter-core-5.7.2 jupyter-events-0.10.0 jupyter-lsp-2.2.5 jupyter-server-2.14.2 jupyter-server-terminals-0.5.3 jupyterlab-4.2.4 jupyterlab-pygments-0.3.0 jupyterlab-server-2.27.3 matplotlib-inline-0.1.7 mistune-3.0.2 nbclient-0.10.0 nbconvert-7.16.4 nbformat-5.10.4 nest-asyncio-1.6.0 notebook-7.2.1 notebook-shim-0.2.4 overrides-7.7.0 packaging-24.1 pandocfilters-1.5.1 parso-0.8.4 platformdirs-4.2.2 prometheus-client-0.20.0 prompt-toolkit-3.0.47 psutil-6.0.0 pure-eval-0.2.3 pycparser-2.22 pygments-2.18.0 python-dateutil-2.9.0.post0 python-json-logger-2.0.7 pywin32-306 pywinpty-2.0.13 pyyaml-6.0.2 pyzmq-26.1.0 referencing-0.35.1 requests-2.32.3 rfc3339-validator-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.20.0 send2trash-1.8.3 setuptools-72.2.0 six-1.16.0 sniffio-1.3.1 soupsieve-2.6 stack-data-0.6.3 terminado-0.18.1 tinycss2-1.3.0 tornado-6.4.1 traitlets-5.14.3 types-python-dateutil-2.9.0.20240316 uri-template-1.3.0 urrlib3-2.2.2 wcwidth-0.2.13 webcolors-24.8.0 webencodings-0.5.1 websocket-client-1.8.0
C:\Users\dell>jupyter notebook

```

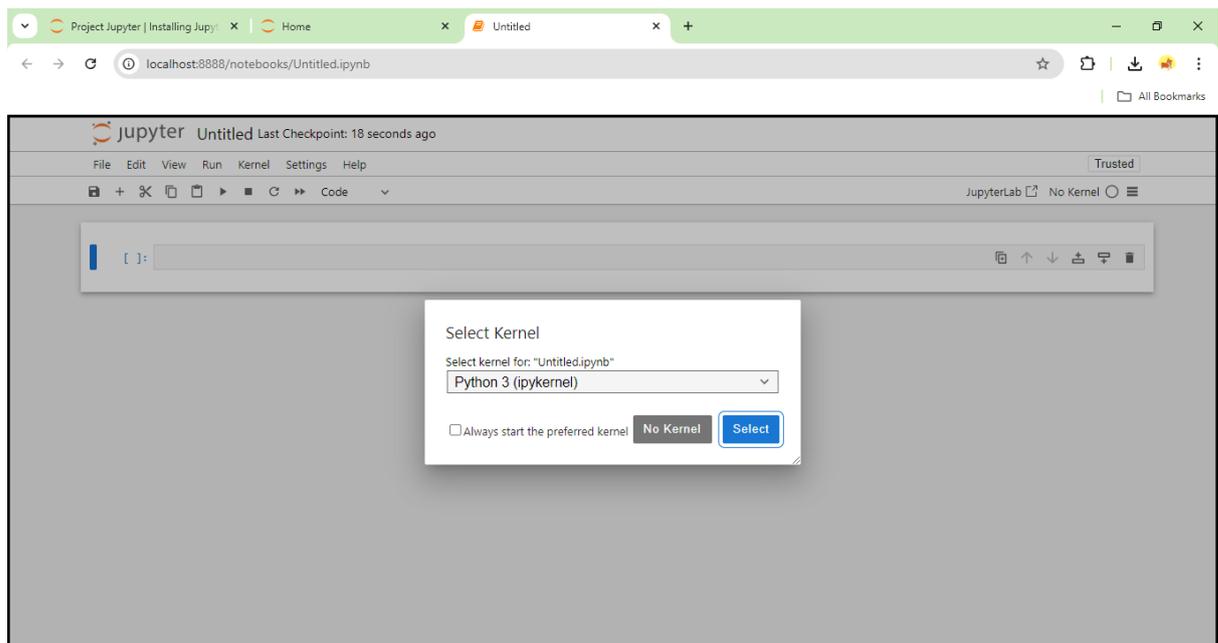
5. Jupyter Notebook application is opened in a browser.



6. Click on File → New → Notebook



7. Select Kernel popup appears. Click on Next



8. The following screen appears where Jupyter notebook is ready to use.

