### Ex No: 1 INSTALLATION AND CONFIGURATION OF TENSORFLOW

#### Aim:

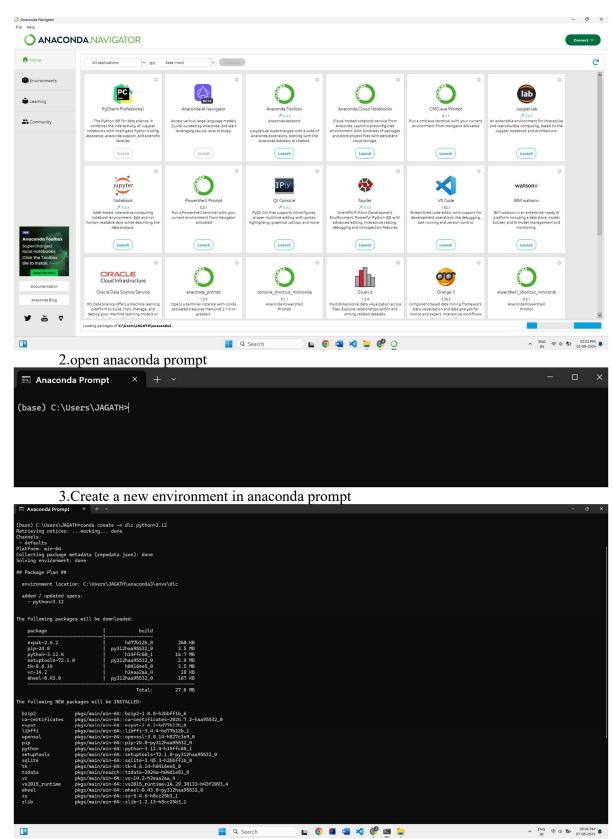
To install and configure TensorFlow in anaconda environment in Windows 10.

### **Procedure:**

- 1. Download Anaconda Navigator and install.
- 2. Open Anaconda prompt
- 3. Create a new environment dlc with python 3.7 using the following command: conda create -n dlc python=3.7
- 4. Activate newly created environment dlc using the following command: conda activate dlc
- 5. In dlc prompt, install tensorflow using the following command: pip install tensorflow
- 6. Next install Tensorflow-datasets using the following command: pip install tensorflow-datasets
- 7. Install scikit-learn package using the following command: pip install scikit-learn
- 8. Install pandas package using the following command: pip install pandas
- 9. Lastly, install jupyter notebook pip install jupyter notebook
- 10. Open jupyter notebook by typing the following in dlc prompt: jupyter notebook
- 11.Click create new and then choose python 3 (ipykernel)
- 12. Give the name to the file
- 13. Type the code and click Run button to execute (eg. Type import tensorflow and then run)

## OUTPUT:

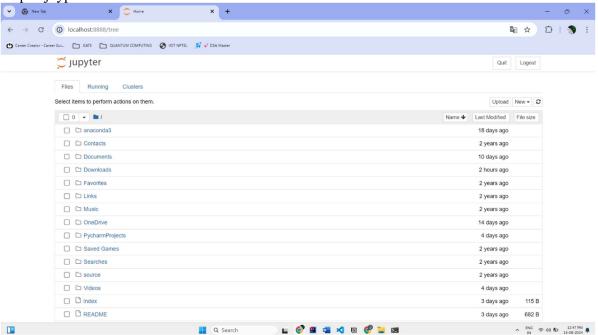
## 1.Download anaconda navigator



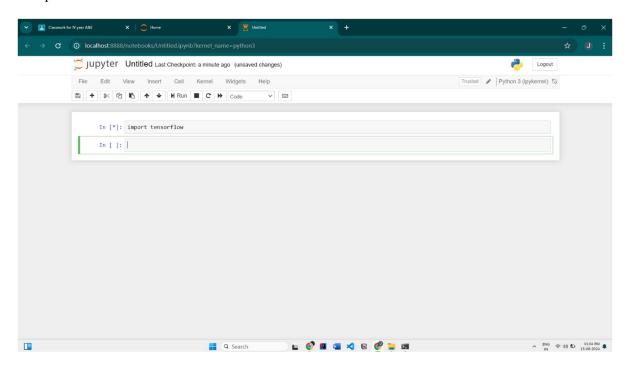
4. activate newly created environment loading and Extracting Packages To activate this environment, use To deactivate an active environment, use \$ conda deactivate base) C:\Users\JAGATH>conda activate dlc dlc) C:\Users\JAGATH> 5. in dlc environment install tensorflow, sci-kit-learn, and pandas. Installing collected packages: pytz, tzdata, pandas Successfully installed pandas-2.2.2 pytz-2024.1 tzdata-2024.1 (dlc) C:\Users\JAGATH> o 🛚 🚾 🗶 💞 🖼 📜 Installing collected packages: threadpoolctl, scipy, joblib, scikit-learn
Successfully installed joblib-1.4.2 scikit-learn-1.5.1 scipy-1.14.0 threadpoolctl-3.5.0 (dlc) C:\Users\JAGATH> 💿 🖪 👊 🗶 🧬 acong missapare\*\*.1.3-(pize-tps:21-fail\_memora-may, will (10.0 km) to km) will (10.0 km) will (1 ■ Q Search 6.Install juypter notebook 6.Install juypter notebook
Downloading types\_python\_dateutil-2.9.0.20240316-py3-none-any.whl (9.7 kB)
Installing collected packages: webencodings, fastjsonschema, widgetsnbextension, websocket-client, web colors, uri-template, types-python-dateutil, tinycss2, soupsieve, sniffio, send2trash, rpds-py, rfc398 6-validator, rfc3339-validator, qtpy, pyyaml, pywinpty, python-json-logger, pycparser, prometheus-clie nt, pandocfilters, overrides, mistune, jupyterlab-widgets, jupyterlab-pygments, jsonpointer, json5, ji nja2, hl1, fqdn, defusedxml, bleach, babel, attrs, async-lru, terminado, referencing, httpcore, cffi, beautifulsoup4, arrow, anyio, jupyter-server-terminals, jsonschema-specifications, isoduration, httpx, argon2-cffi-bindings, jsonschema, ipywidgets, argon2-cffi, qtconsole, nbformat, jupyter-console, nbcl ient, jupyter-events, nbconvert, jupyter-server, notebook-shim, jupyterlab-server, jupyter-lsp, jupyterlab, potebook, jupyterrlab, notebook, jupyter Successfully installed anyio-4.4.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 async-lr u-2.0.4 attrs-24.2.0 babel-2.15.0 beautifulsoup4-4.12.3 bleach-6.1.0 cffi-1.17.0 defusedxml-0.7.1 fast jsonschema-2.20.0 fqdn-1.5.1 h11-0.14.0 httpcore-1.0.5 httpx-0.27.0 ipywidgets-8.1.3 isoduration-20.11 10 jinja2-3.1.4 json5-0.9.25 jsonpointer-3.0.0 jsonschema-4.23.0 jsonschema-specifications-2023.12.1 jupyter-1.0.0 jupyter-console-6.6.3 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 jupyterlab-widgets-3.0.11 mistune-3.0.2 nbclient-0.10.0 nbconvert-7.16.4 nbformat-5.10.4 notebook-7.2.1 notebo ok-shim-0.2.4 overrides-7.7.0 pandocfilters-1.5.1 prometheus-client-0.20.0 pycparser-2.22 python-jsonlogger-2.0.7 pywinpty-2.0.13 pyyaml-6.0.2 qtconsole-5.5.2 qtpy-2.4.1 referencing-0.35.1 rfc3339-valida tor-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.20.0 send2trash-1.8.3 sniffio-1.3.1 soupsieve-2.5 terminad o-0.18.1 tinycss2-1.3.0 types-python-dateutil-2.9.0.20240316 uri-template-1.3.0 webcolors-24.6.0 weben codings-0.5.1 websocket-client-1.8.0 widgetsnbextension-4.0.11

(dlc) C:\Users\JAGATH>

7. open juypter notebook



8.import tensorflow and run the cell



# **Useful Learning Resources:**

- 1. https://docs.anaconda.com/free/anaconda/applications/tensorflow/
- 2. <a href="https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html#activating-an-environment">https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environment</a>