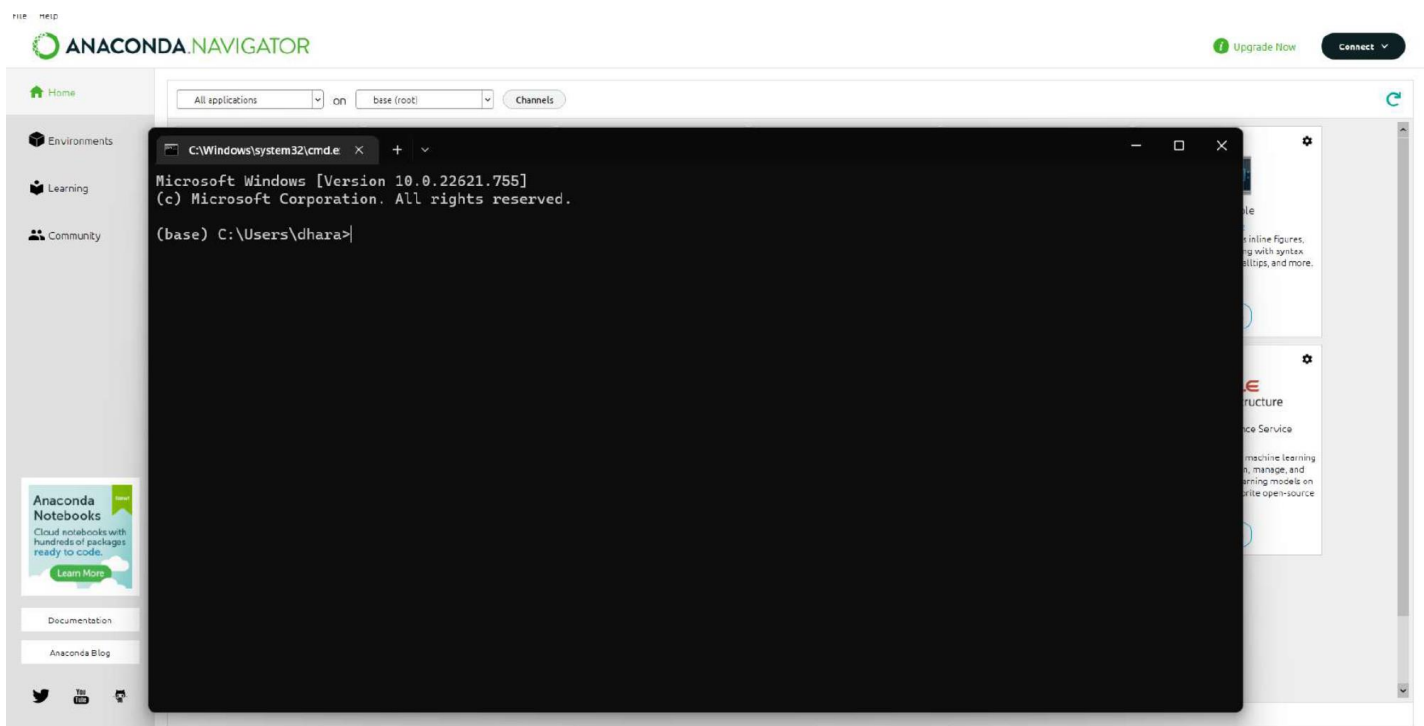
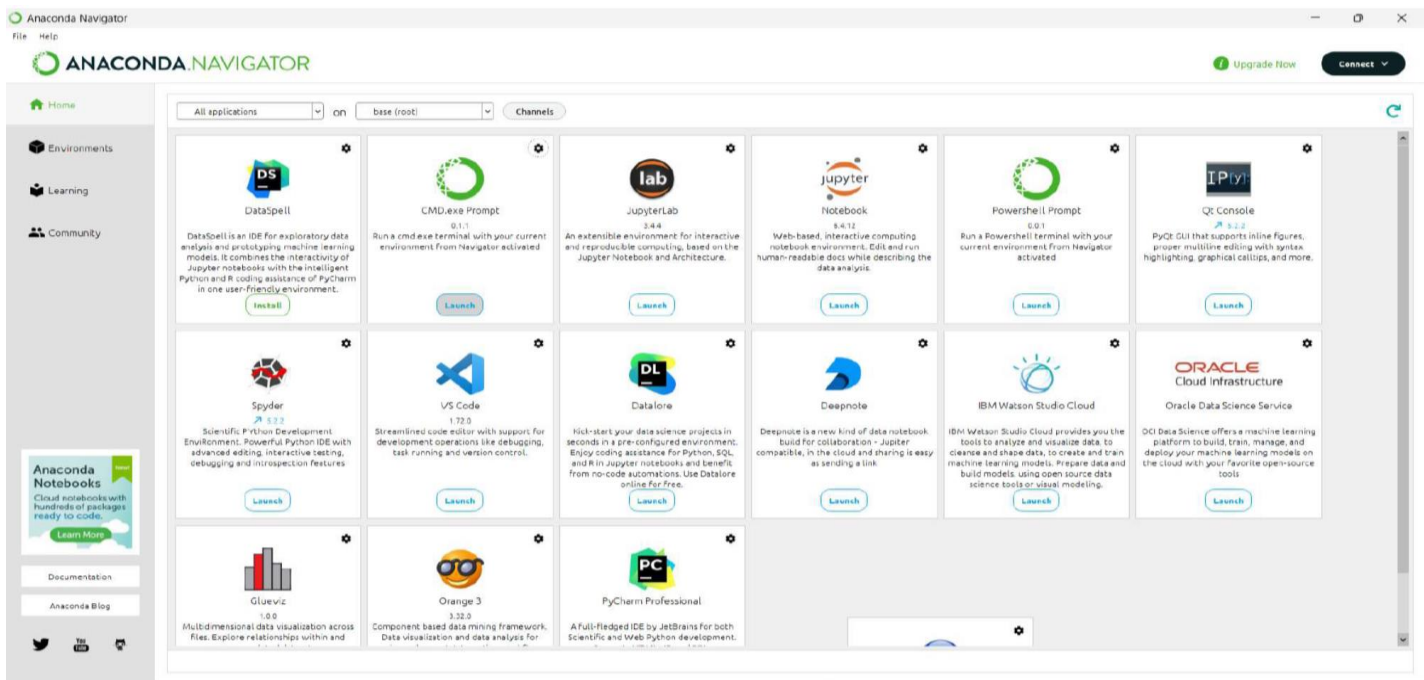
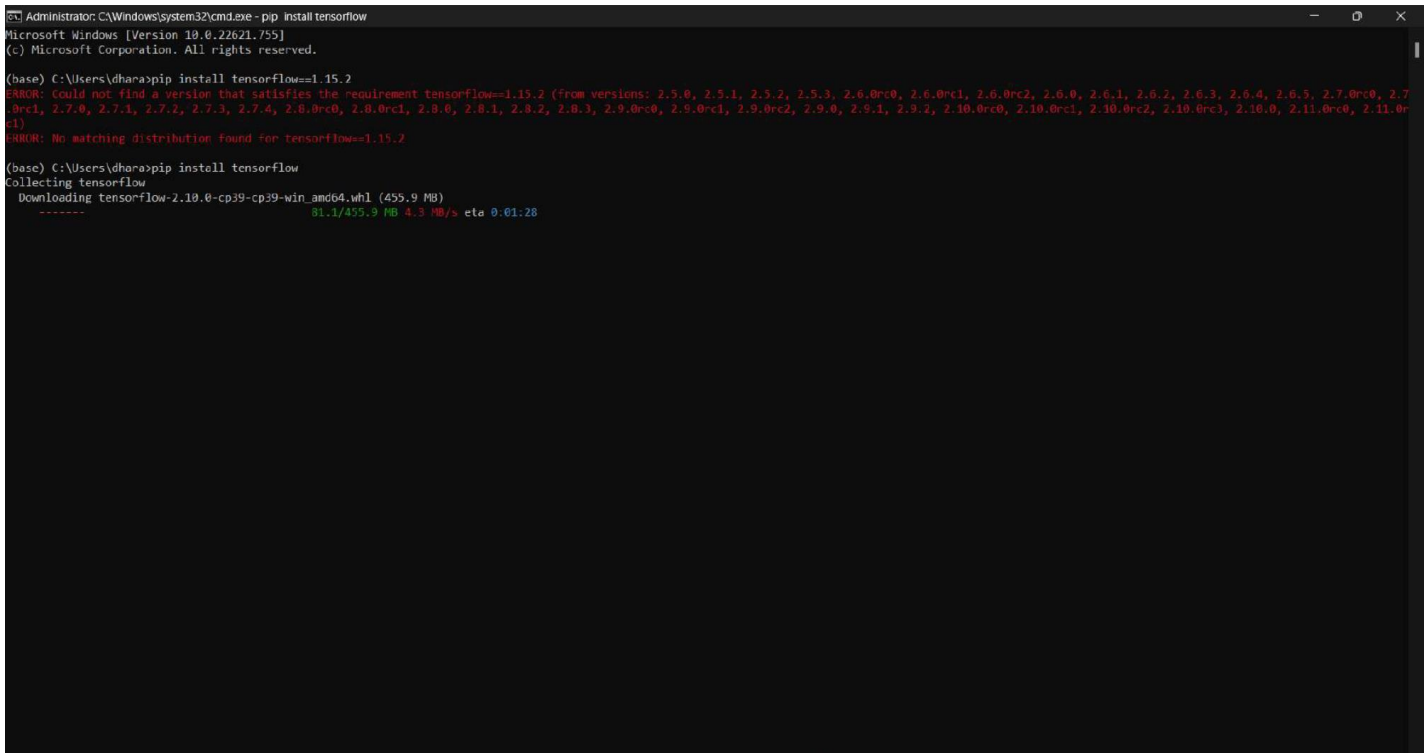
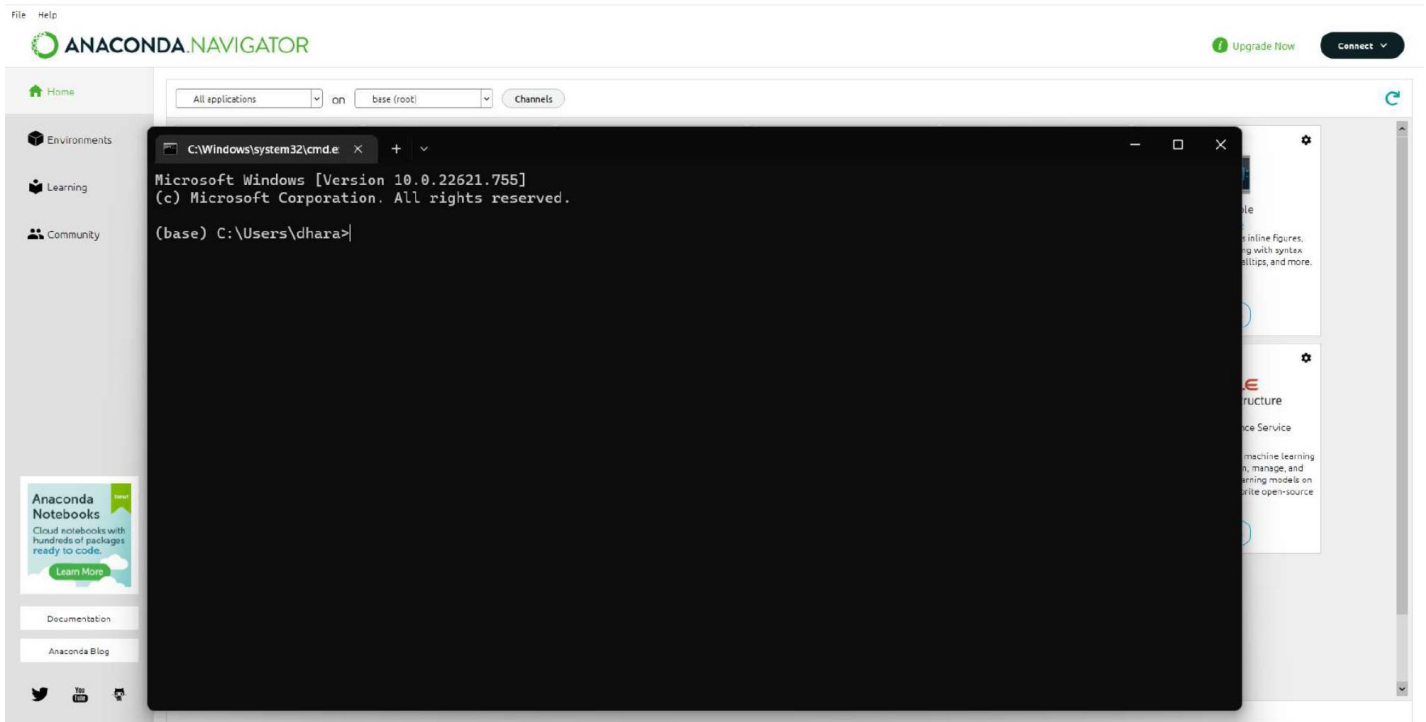


INSTALL PYTHON PACKAGES:





```
Administrator: C:\Windows\system32\cmd.exe - pip install tensorflow

(base) C:\Users\dhara>pip install tensorflow
Collecting tensorflow
  Downloading tensorflow-2.10.0-cp39-cp39-win_amd64.whl (455.9 MB)
-----
131.8/455.9 MB 4.6 MB/s eta 0:01:11
```

```
Administrator: C:\Windows\system32\cmd.exe - pip install tensorflow

Collecting keras<2.11,>=2.10.0
  Downloading keras-2.10.0-py2.py3-none-any.whl (1.7 MB)
-----
1.7/1.7 MB 10.7 MB/s eta 0:00:00
Collecting tensorboard<2.11,>=2.10
  Downloading tensorboard-2.10.1-py3-none-any.whl (5.9 MB)
-----
5.9/5.9 MB 3.6 MB/s eta 0:00:00
Requirement already satisfied: setuptools in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (63.4.1)
Requirement already satisfied: six>=1.12.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (1.16.0)
Requirement already satisfied: wrapt>=1.11.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (1.14.1)
Collecting google-pasta>=0.1.1
  Downloading google_pasta-0.2.0-py3-none-any.whl (57 kB)
-----
57.5/57.5 kB ? eta 0:00:00
Collecting keras-preprocessing>=1.1.1
  Downloading Keras_Preprocessing-1.1.2-py2.py3-none-any.whl (42 kB)
-----
42.6/42.6 kB 2.0 MB/s eta 0:00:00
Collecting protobuf<3.20,>=3.9.2
  Downloading protobuf-3.19.6-cp39-cp39-win_amd64.whl (895 kB)
-----
895.9/895.9 kB 2.7 MB/s eta 0:00:00
Collecting libclang>=13.0.0
  Downloading libclang-14.0.6-py2.py3-none-win_amd64.whl (14.2 MB)
-----
14.2/14.2 MB 6.3 MB/s eta 0:00:00
Collecting grpcio<2.0,>=1.24.3
  Downloading grpcio-1.50.0-cp39-cp39-win_amd64.whl (3.7 MB)
-----
3.7/3.7 MB 7.5 MB/s eta 0:00:00
Requirement already satisfied: h5py>=2.9.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (3.7.0)
Collecting opt-einsum>=2.3.2
  Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
-----
65.5/65.5 kB ? eta 0:00:00
Requirement already satisfied: typing-extensions>=3.6.6 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (4.3.0)
Requirement already satisfied: numpy>=1.20 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (1.21.5)
Collecting tensorflow-estimator<2.11,>=2.10.0
  Downloading tensorflow_estimator-2.10.0-py2.py3-none-any.whl (438 kB)
-----
438.7/438.7 kB 9.1 MB/s eta 0:00:00
Collecting flatbuffers>=2.0
  Downloading flatbuffers-22.10.26-py2.py3-none-any.whl (26 kB)
-----
26.0/26.0 kB 10.7 MB/s eta 0:00:00
Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\users\dhara\anaconda3\lib\site-packages (from astunparse>=1.6.0->tensorflow) (0.37.1)
Collecting google-auth-oauthlib<0.5,>=0.4.1
  Downloading google_auth_oauthlib-0.4.6-py2.py3-none-any.whl (18 kB)
-----
18.0/18.0 kB 11.0 MB/s eta 0:00:00
Collecting google-auth<3,>=1.6.3
  Downloading google_auth-2.14.0-py2.py3-none-any.whl (175 kB)
-----
175.0/175.0 kB 11.0 MB/s eta 0:00:00
Collecting tensorboard-data-server<0.7.0,>=0.6.0
  Downloading tensorboard_data_server-0.6.1-py3-none-any.whl (2.4 kB)
-----
2.4/2.4 kB 10.7 MB/s eta 0:00:00
Requirement already satisfied: markdown>=2.6.8 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (3.3.4)
Collecting tensorboard-plugin-wit>=1.6.0
  Downloading tensorboard_plugin_wit-1.8.1-py3-none-any.whl (781 kB)
-----
781.2/781.2 kB 9.8 MB/s eta 0:00:00
Requirement already satisfied: werkzeug>=1.0.1 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
```

```
Administrator: C:\Windows\system32\cmd.exe - pip install tensorflow
Downloading libclang-14.0.6-py2.py3-none-win_amd64.whl (14.2 MB)
----- 14.2/14.2 MB 6.3 MB/s eta 0:00:00
Collecting grpcio<2.0,>=1.24.3
Downloading grpcio-1.50.0-cp39-cp39-win_amd64.whl (3.7 MB)
----- 3.7/3.7 MB 7.5 MB/s eta 0:00:00
Requirement already satisfied: h5py>=2.9.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (3.7.0)
Collecting opt-einsum>=2.3.2
Downloading opt_einsum-3.3.0-py3-none-any.whl (65 kB)
----- 65.5/65.5 kB ? eta 0:00:00
Requirement already satisfied: typing-extensions>=3.6.6 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (4.3.0)
Requirement already satisfied: numpy>=1.20 in c:\users\dhara\anaconda3\lib\site-packages (from tensorflow) (1.21.5)
Collecting tensorflow-estimator<2.11,>=2.10.0
Downloading tensorflow_estimator-2.10.0-py2.py3-none-any.whl (438 kB)
----- 438.7/438.7 kB 9.1 MB/s eta 0:00:00
Collecting flatbuffers>=2.0
Downloading flatbuffers-22.10.26-py2.py3-none-any.whl (26 kB)
Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\users\dhara\anaconda3\lib\site-packages (from astunparse>=1.6.0->tensorflow) (0.37.1)
Collecting google-auth-oauthlib<0.5,>=0.4.1
Downloading google_auth_oauthlib-0.4.6-py2.py3-none-any.whl (18 kB)
Collecting google-auth<3,>=1.6.3
Downloading google_auth-2.14.0-py2.py3-none-any.whl (175 kB)
----- 175.0/175.0 kB 11.0 MB/s eta 0:00:00
Collecting tensorboard-data-server<0.7.0,>=0.6.0
Downloading tensorboard_data_server-0.6.1-py3-none-any.whl (2.4 kB)
Requirement already satisfied: markdown>=2.6.8 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (3.3.4)
Collecting tensorboard-plugin-wit<1.6.0
Downloading tensorboard_plugin_wit-1.8.1-py3-none-any.whl (781 kB)
----- 781.3/781.3 kB 9.8 MB/s eta 0:00:00
Requirement already satisfied: werkzeug>=1.0.1 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
Requirement already satisfied: pyparsing<3.0.5,>=2.0.2 in c:\users\dhara\anaconda3\lib\site-packages (from packaging->tensorflow) (3.0.0)
Collecting rsa<5,>=3.1.4
Downloading rsa-4.9-py3-none-any.whl (34 kB)
Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\users\dhara\anaconda3\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.2.8)
Collecting cachetools<6.0,>=2.0.0
Downloading cachetools-5.2.0-py3-none-any.whl (9.3 kB)
Collecting requests-oauthlib<0.7.0
Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2022.9.14)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (1.26.11)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\users\dhara\anaconda3\lib\site-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.4.8)
Collecting oauthlib<3.0
Downloading oauthlib-3.2.2-py3-none-any.whl (151 kB)
----- 151.7/151.7 kB 8.8 MB/s eta 0:00:00
Installing collected packages: tensorboard-plugin-wit, libclang, keras, flatbuffers, termcolor, tensorflow-io-gcs-filesystem, tensorflow-estimator, tensorboard-data-server, rsa, protobuf, opt-einsum, oauthlib, k
eras-preprocessing, grpcio, google-pasta, gast, cachetools, astunparse, absl-py, requests-oauthlib, google-auth, google-auth-oauthlib, tensorboard, tensorflow
w-estimator-2.10.0 tensorflow-io-gcs-filesystem-0.27.0 termcolor-2.1.0

(base) C:\Users\dhara> pip install keras
Requirement already satisfied: keras in c:\users\dhara\anaconda3\lib\site-packages (2.10.0)

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

```
Administrator: C:\Windows\system32\cmd.exe
----- 151.7/151.7 kB 8.8 MB/s eta 0:00:00
Installing collected packages: tensorboard-plugin-wit, libclang, keras, flatbuffers, termcolor, tensorflow-io-gcs-filesystem, tensorflow-estimator, tensorboard-data-server, rsa, protobuf, opt-einsum, oauthlib, k
eras-preprocessing, grpcio, google-pasta, gast, cachetools, astunparse, absl-py, requests-oauthlib, google-auth, google-auth-oauthlib, tensorboard, tensorflow
Successfully installed absl-py-1.3.0 astunparse-1.6.3 cachetools-5.2.0 flatbuffers-22.10.26 gast-0.4.0 google-auth-2.14.0 google-auth-oauthlib-0.4.6 google-pasta-0.2.0 grpcio-1.50.0 keras-2.10.0 keras-preprocess
ing-1.1.2 libclang-14.0.6 oauthlib-3.2.2 opt-einsum-3.3.0 protobuf-3.19.6 requests-oauthlib-1.3.1 rsa-4.9 tensorboard-2.10.1 tensorboard-data-server-0.6.1 tensorflow-2.10.0 tensorflow
w-estimator-2.10.0 tensorflow-io-gcs-filesystem-0.27.0 termcolor-2.1.0

(base) C:\Users\dhara> pip install keras
Requirement already satisfied: keras in c:\users\dhara\anaconda3\lib\site-packages (2.10.0)

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

```
Administrator: C:\Windows\system32\cmd.exe
Requirement already satisfied: werkzeug>=1.0.1 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.0.3)
Requirement already satisfied: requests<3,>=2.21.0 in c:\users\dhara\anaconda3\lib\site-packages (from tensorboard<2.11,>=2.10->tensorflow) (2.28.1)
Requirement already satisfied: pyparsing<3.0.5,>=2.0.2 in c:\users\dhara\anaconda3\lib\site-packages (from packaging->tensorflow) (3.0.9)
Collecting rsa<5,>=3.1.4
  Downloading rsa-4.9-py3-none-any.whl (34 kB)
Requirement already satisfied: pyasn1-modules<0.2.1 in c:\users\dhara\anaconda3\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.2.8)
Collecting cachetools<6.0,>=2.0.0
  Downloading cachetools-5.2.0-py3-none-any.whl (9.3 kB)
Collecting requests-oauthlib<0.7.0
  Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: certifi<2017.4.17 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2022.9.14)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\dhara\anaconda3\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.11,>=2.10->tensorflow) (1.26.11)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\users\dhara\anaconda3\lib\site-packages (from pyasn1-modules<0.2.1->google-auth<3,>=1.6.3->tensorboard<2.11,>=2.10->tensorflow) (0.4.8)
Collecting oauthlib<3.0.0
  Downloading oauthlib-3.2.2-py3-none-any.whl (151 kB)
----- 151.7/151.7 kB 8.8 MB/s eta 0:00:00
Installing collected packages: tensorboard-plugin-wit, libclang, keras, flatbuffers, termcolor, tensorflow-io-gcs-filesystem, tensorflow-estimator, tensorboard-data-server, rsa, protobuf, opt-einsum, oauthlib, k
eras-preprocessing, grpcio, google-pasta, gast, cachetools, astunparse, absl-py, requests-oauthlib, google-auth, google-auth-oauthlib, tensorboard, tensorflow
Successfully installed absl-py-1.3.0 astunparse-1.6.3 cachetools-5.2.0 flatbuffers-22.10.26 gast-0.4.0 google-auth-2.14.0 google-auth-oauthlib-0.4.6 google-pasta-0.2.0 grpcio-1.50.0 keras-2.10.0 keras-preprocess
ing-1.1.2 libclang-14.0.6 oauthlib-3.2.2 opt-einsum-3.3.0 protobuf-3.19.6 requests-oauthlib-1.3.1 rsa-4.9 tensorboard-2.10.1 tensorboard-data-server-0.6.1 tensorboard-plugin-wit-1.8.1 tensorflow-2.10.0 tensorflo
w-estimator-2.10.0 tensorflow-io-gcs-filesystem-0.27.0 termcolor-2.1.0

(base) C:\Users\dhara> pip install keras
Requirement already satisfied: keras in c:\users\dhara\anaconda3\lib\site-packages (2.10.0)

(base) C:\Users\dhara> pip install opencv-python
Collecting opencv-python
  Downloading opencv_python-4.6.0.66-cp36-abi3-win_amd64.whl (35.6 MB)
----- 35.6/35.6 MB 6.2 MB/s eta 0:00:00
Requirement already satisfied: numpy>=1.14.5 in c:\users\dhara\anaconda3\lib\site-packages (from opencv-python) (1.21.5)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.6.0.66

(base) C:\Users\dhara> pip install Pillow
Requirement already satisfied: Pillow in c:\users\dhara\anaconda3\lib\site-packages (9.2.0)

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

```
Administrator: C:\Windows\system32\cmd.exe

(base) C:\Users\dhara> pip install opencv-python
Collecting opencv-python
  Downloading opencv_python-4.6.0.66-cp36-abi3-win_amd64.whl (35.6 MB)
----- 35.6/35.6 MB 6.2 MB/s eta 0:00:00
Requirement already satisfied: numpy>=1.14.5 in c:\users\dhara\anaconda3\lib\site-packages (from opencv-python) (1.21.5)
Installing collected packages: opencv-python
Successfully installed opencv-python-4.6.0.66

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