

## Installing the dependencies

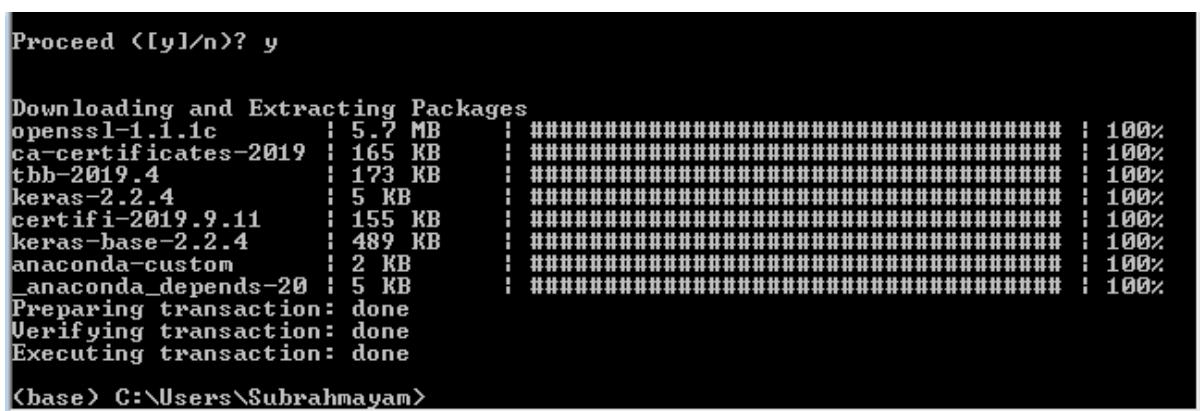
### Install Tensorflow:

- Open anaconda prompt and execute the below command to install tensorflow library and press enter.



```
Anaconda Prompt
(base) C:\Users\Subrahmayam>conda install tensorflow
```

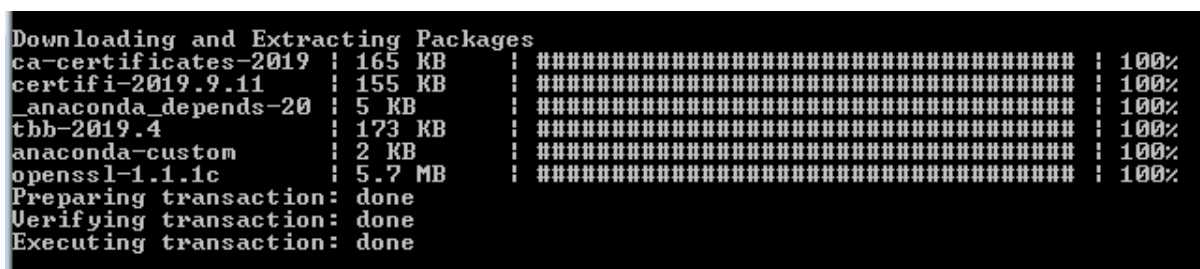
- Press enter if it is prompting you to continue/ proceed



```
Proceed [y]/n? y

Downloading and Extracting Packages
openssl-1.1.1c           | 5.7 MB           | ##### | 100%
ca-certificates-2019     | 165 KB           | ##### | 100%
tbb-2019.4               | 173 KB           | ##### | 100%
keras-2.2.4              | 5 KB             | ##### | 100%
certifi-2019.9.11        | 155 KB           | ##### | 100%
keras-base-2.2.4         | 489 KB           | ##### | 100%
anaconda-custom          | 2 KB             | ##### | 100%
_anaconda_depends-20     | 5 KB             | ##### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(base) C:\Users\Subrahmayam>
```

- You should see successfully installed messages after installation /it will like below image after installation

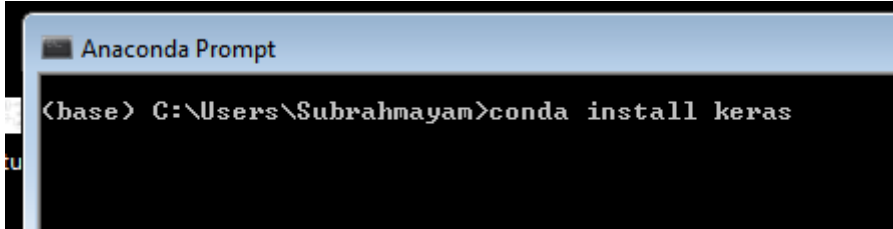


```
Downloading and Extracting Packages
ca-certificates-2019     | 165 KB           | ##### | 100%
certifi-2019.9.11        | 155 KB           | ##### | 100%
_anaconda_depends-20     | 5 KB             | ##### | 100%
tbb-2019.4               | 173 KB           | ##### | 100%
anaconda-custom          | 2 KB             | ##### | 100%
openssl-1.1.1c           | 5.7 MB           | ##### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

**Note:** it will take a few minutes based on the processing speed

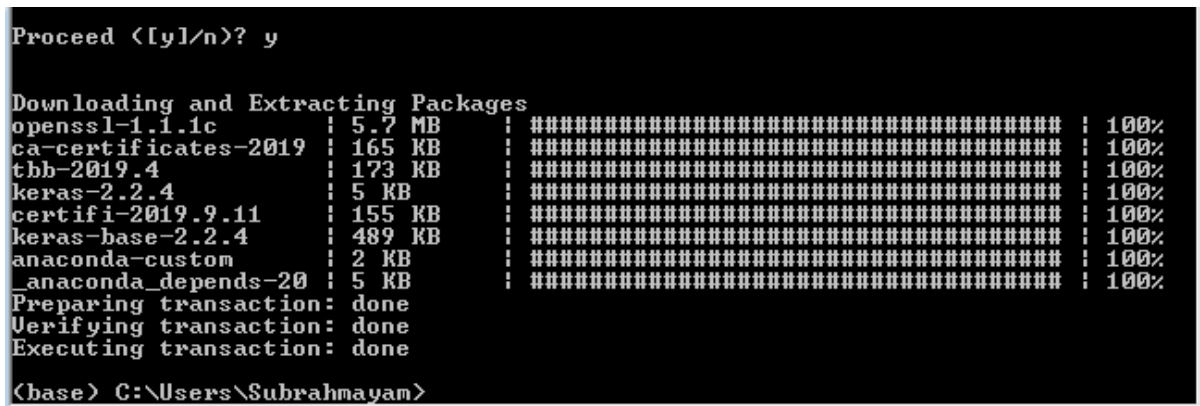
## Install Keras:

- Open anaconda prompt and execute the below command to install keras library and press enter.



```
Anaconda Prompt
<base> C:\Users\Subrahmayam>conda install keras
```

- Press enter if it is prompting you to continue

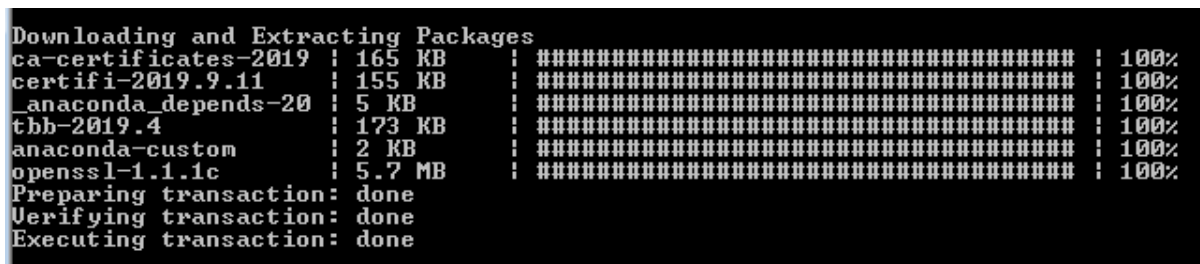


```
Proceed [y]/n? y

Downloading and Extracting Packages
openssl-1.1.1c      : 5.7 MB : ##### : 100%
ca-certificates-2019 : 165 KB : ##### : 100%
tbb-2019.4         : 173 KB : ##### : 100%
keras-2.2.4         : 5 KB   : ##### : 100%
certifi-2019.9.11   : 155 KB : ##### : 100%
keras-base-2.2.4     : 489 KB : ##### : 100%
anaconda-custom      : 2 KB   : ##### : 100%
_anaconda_depends-20 : 5 KB   : ##### : 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

<base> C:\Users\Subrahmayam>
```

- You should see successfully installed message/it will like below image after installation



```
Downloading and Extracting Packages
ca-certificates-2019 : 165 KB : ##### : 100%
certifi-2019.9.11    : 155 KB : ##### : 100%
_anaconda_depends-20 : 5 KB   : ##### : 100%
tbb-2019.4           : 173 KB : ##### : 100%
anaconda-custom       : 2 KB   : ##### : 100%
openssl-1.1.1c       : 5.7 MB : ##### : 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

**Note:** it will take a few minutes based on the processing speed.

## Install Opencv:

- Open anaconda prompt and execute the below command to install Open cv library and press enter.

```
(base) C:\Users\Subrahmayam>conda install opencv
```

- Press enter if it is prompting you to continue

```
Proceed [y]/n)? y

Downloading and Extracting Packages
openssl-1.1.1c           : 5.7 MB : ##### : 100%
ca-certificates-2019    : 165 KB : ##### : 100%
tbb-2019.4              : 173 KB : ##### : 100%
keras-2.2.4             : 5 KB   : ##### : 100%
certifi-2019.9.11       : 155 KB : ##### : 100%
keras-base-2.2.4        : 489 KB : ##### : 100%
anaconda-custom         : 2 KB   : ##### : 100%
_anaconda_depends-20    : 5 KB   : ##### : 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

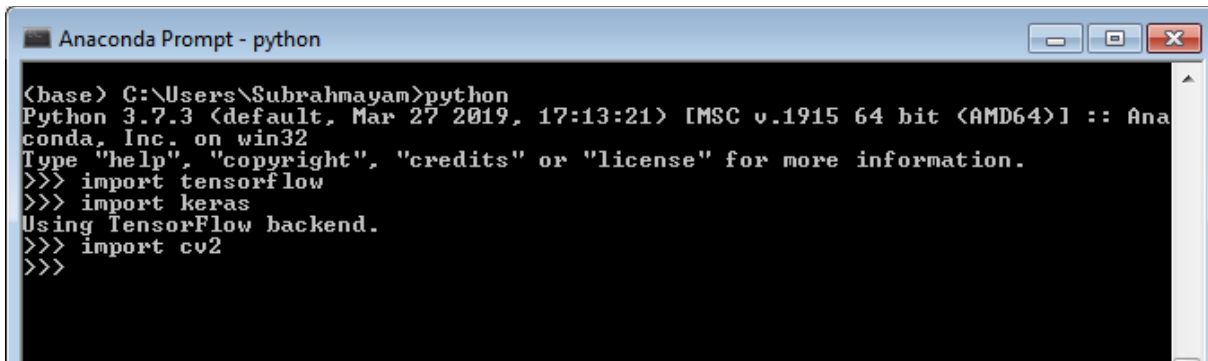
(base) C:\Users\Subrahmayam>
```

- You should see successfully installed message/it will like below image after installation

```
Downloading and Extracting Packages
h5py-2.8.0              : 833 KB : ##### : 100%
opencv-3.4.1            : 9 KB   : ##### : 100%
hdf5-1.10.2             : 34.8 MB : ##### : 100%
libopencv-3.4.1         : 37.0 MB : ##### : 100%
py-opencv-3.4.1         : 1.5 MB : ##### : 100%
pytables-3.4.4          : 2.7 MB : ##### : 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

### check whether All the dependencies are installed

- type “python” on anaconda prompt, your “python shell” with “>>” symbol is opened
- Type “**import tensorflow**” and press enter
- It should not throw any error
- Type “**import keras**” and press enter
- it should not throw any error and should print **using tensorflow as backend**
- Type “**import cv2**” and press enter
- It should not throw any error



```
Anaconda Prompt - python
(base) C:\Users\Subrahmayam>python
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import tensorflow
>>> import keras
Using TensorFlow backend.
>>> import cv2
>>>
```

**Note:** if conda prompt throws an error while executing the above steps, please try installing all the libraries again