(base) C:\Users\onom1>conda activate machine

(machine) C:\Users\onom1>python

Python 3.6.12 |Anaconda, Inc.| (default, Sep 9 2020, 00:29:25) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> import tensorflow as tf

2020-09-16 13:57:38.581222: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:55] Could not load dynamic library 'cudart64\_100.dll'; dlerror: cudart64\_100.dll not found

2020-09-16 13:57:38.581842: I tensorflow/stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

>>> tf.\_\_version\_\_

'1.15.0'

>>> hello = tf.constant("Hello, Tensorflow")

>>> sess = tf.Session()

>>> print(sess.run(hello))

b'Hello, Tensorflow' #2.x 버전에서는 string으로 출력되지만 3.x 버전에서는 byte로 출력

>>> node1 = tf.constant(3.0, tf.float32)

>>> node2 = tf.constant(4.0)

>>> node3 = tf.add(node1, node2)

>>> print("node1:", node1, "node2", node2)

>>> print("node3:", node3)

node1: Tensor("Const:0", shape=(), dtype=float32) node2 Tensor("Const\_1:0", shape=(), dtype=float32)

node3: Tensor("Add:0", shape=(), dtype=float32)

>>> sess = tf.Session()

2020-09-16 14:01:28.280526: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:55] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found

2020-09-16 14:01:28.280767: E tensorflow/stream\_executor/cuda/cuda\_driver.cc:318] failed call to cuInit: UNKNOWN ERROR (303)

2020-09-16 14:01:28.291868: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-PDUGNJD

2020-09-16 14:01:28.293179: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:176] hostname: DESKTOP-PDUGNJD

2020-09-16 14:01:28.296565: I tensorflow/core/platform/cpu\_feature\_guard.cc:142] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2

>>> print("sess.run(node1, node2): ", sess.run([node1, node2]))

[3.0, 4.0]

>>> print("sess.run(node3): ", sess.run(node3))

7.0

>>>