**Experiment 1**

1. **Installation of Tensorflow**

pip install tensorflow

Text

Description automatically generated

1. **Creation of a One-dimensional tensor**

#install torch

import torch

n=torch.FloatTensor([1,2,3,4,5,6])

print(n)

Graphical user interface, text

Description automatically generated

1. **Creation of two-dimensional tensors**

x=torch.arange(0,9)

x

y=x.view(3,3)

y

Graphical user interface, text, application

Description automatically generated

1. **Tensor Handling and Manipulations**

import numpy as np

x\_input = np.random.sample((1,2))

print(x\_input)

Text

Description automatically generated

import tensorflow.compat.v1 as tf

tf.disable\_v2\_behavior()

x=tf.placeholder("float",shape=[1,2],name='x')

tf.data.Dataset.from\_tensor\_slices

dataset= tf.data.Dataset.from\_tensor\_slices(x)

iterator = dataset.make\_initializable\_iterator()

get\_next = iterator.get\_next()

#execution

with tf.Session() as session:

    session.run(iterator.initializer,feed\_dict={x:x\_input})

    print(session.run(get\_next))

Text

Description automatically generated