```python
import numpy as np
import tensorflow as tf

print(tf.version)
```

```
<module 'tensorflow._api.v2.version' from
'/opt/anaconda3/lib/python3.12/site-packages/tensorflow/_api/v2/versio
n/__init__.py'>
```

```python
from keras import datasets

(train_images, train_labels), (test_images, test_labels) =
datasets.mnist.load_data()

test_images.shape
```

```
(10000, 28, 28)
```

```
!pip3 install torch torchvision torchaudio --extra-index-url
https://download.pytorch.org/whl/cu115
```

```
Looking in indexes: https://pypi.org/simple,
https://download.pytorch.org/whl/cu115
Requirement already satisfied: torch in
/opt/anaconda3/lib/python3.12/site-packages (2.4.1)
Requirement already satisfied: torchvision in
/opt/anaconda3/lib/python3.12/site-packages (0.19.1)
Requirement already satisfied: torchaudio in
/opt/anaconda3/lib/python3.12/site-packages (2.4.1)
Requirement already satisfied: filelock in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (3.13.1)
Requirement already satisfied: typing-extensions>=4.8.0 in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (4.11.0)
Requirement already satisfied: sympy in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (1.12)
Requirement already satisfied: networkx in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (3.2.1)
Requirement already satisfied: jinja2 in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (3.1.4)
Requirement already satisfied: fsspec in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (2024.3.1)
Requirement already satisfied: setuptools in
/opt/anaconda3/lib/python3.12/site-packages (from torch) (69.5.1)
Requirement already satisfied: numpy in
/opt/anaconda3/lib/python3.12/site-packages (from torchvision)
(1.26.4)
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in
/opt/anaconda3/lib/python3.12/site-packages (from torchvision)
(10.3.0)
Requirement already satisfied: MarkupSafe>=2.0 in
/opt/anaconda3/lib/python3.12/site-packages (from jinja2->torch)
```

```
(2.1.3)
Requirement already satisfied: mpmath>=0.19 in
/opt/anaconda3/lib/python3.12/site-packages (from sympy->torch)
(1.3.0)
```

```python
import torch
import torch.nn as nn

print(torch.version)
```

```
<module 'torch.version' from '/opt/anaconda3/lib/python3.12/site-packages/torch/version.py'>
```

```python
torch.cuda.is_available()
```

```
False
```