```
In [1]: # ===========
        # 1. TensorFlow
        # ============
        import tensorflow as tf
        print("TensorFlow version:", tf.__version__)
        # Create simple tensor and perform addition
        a = tf.constant(5)
        b = tf.constant(7)
        c = tf.add(a, b)
        print("TensorFlow Addition (5+7):", c.numpy())
      TensorFlow version: 2.19.0
      TensorFlow Addition (5+7): 12
In [2]: # ===========
        # 2. Keras
        # ==========
        from tensorflow import keras
        from keras import datasets
        # Load MNIST dataset
        (train_images, train_labels), (test_images, test_labels) = datasets.mnist.load_d
        print("Keras MNIST dataset shapes:")
        print("Training data:", train_images.shape, "Training labels:", train_labels.sha
        print("Testing data:", test_images.shape, "Testing labels:", test_labels.shape)
      Keras MNIST dataset shapes:
      Training data: (60000, 28, 28) Training labels: (60000,)
      Testing data: (10000, 28, 28) Testing labels: (10000,)
In [3]: # ============
        # 3. PyTorch
        # ===========
        import torch
        print("PyTorch version:", torch.__version__)
        # Create a tensor
        t = torch.tensor([[1, 2], [3, 4]], dtype=torch.float32)
        print("PyTorch Tensor:\n", t)
        # Check CUDA availability
        print("CUDA available:", torch.cuda.is_available())
      PyTorch version: 2.8.0+cpu
      PyTorch Tensor:
       tensor([[1., 2.],
              [3., 4.]])
      CUDA available: False
In [ ]:
```