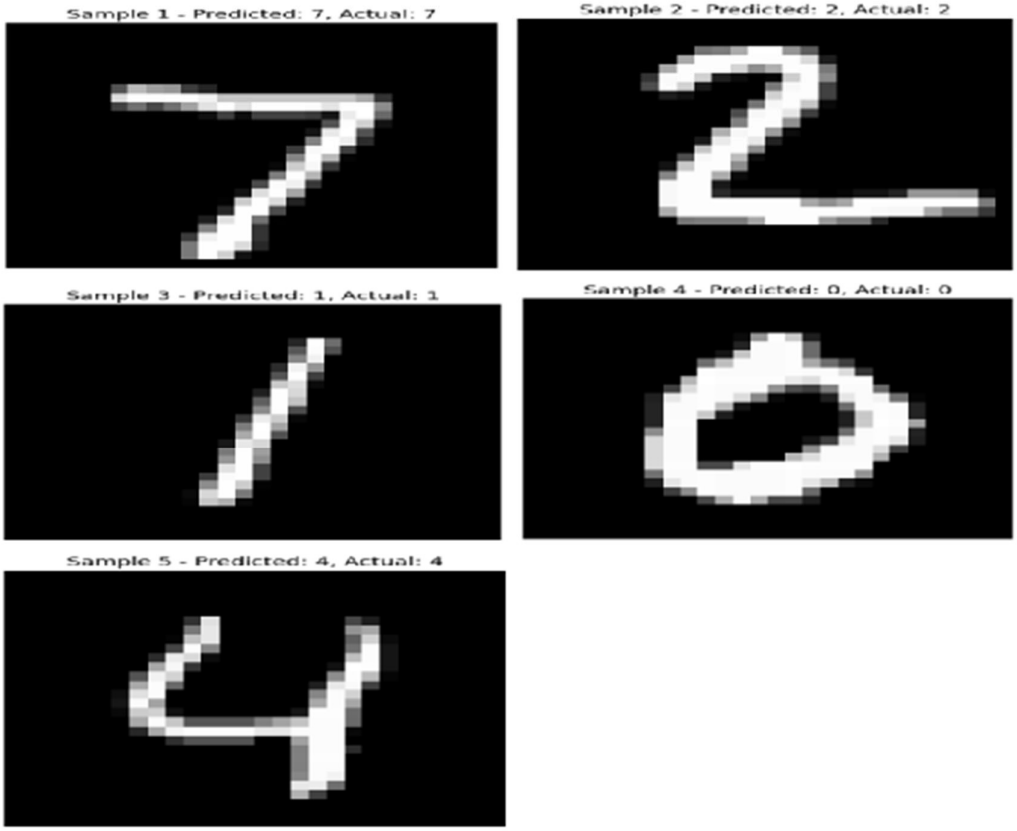
OUTPUT FOR EXP-1

NAME: KEEERTHIKA S
ROLL NO: 220701127
EXP_NO: 1

```
Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/mnist.npz
11490434/11490434 ━━━━━━━━━━━━━━━━━━━━ 0s 0us/step
/usr/local/lib/python3.11/dist-packages/keras/src/layers/core/dense.py:87: UserWarning: Do not pass an `input_shape`/`input_dim` argument to a layer. When using
  super().__init__(activity_regularizer=activity_regularizer, **kwargs)
Epoch 1/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 4s 15ms/step - accuracy: 0.7990 - loss: 0.7140 - val_accuracy: 0.9495 - val_loss: 0.1838
Epoch 2/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 4s 20ms/step - accuracy: 0.9548 - loss: 0.1602 - val_accuracy: 0.9618 - val_loss: 0.1274
Epoch 3/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 4s 12ms/step - accuracy: 0.9718 - loss: 0.0971 - val_accuracy: 0.9684 - val_loss: 0.1091
Epoch 4/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 3s 12ms/step - accuracy: 0.9806 - loss: 0.0686 - val_accuracy: 0.9705 - val_loss: 0.0958
Epoch 5/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 3s 13ms/step - accuracy: 0.9863 - loss: 0.0487 - val_accuracy: 0.9750 - val_loss: 0.0859
Epoch 6/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 5s 13ms/step - accuracy: 0.9903 - loss: 0.0376 - val_accuracy: 0.9739 - val_loss: 0.0868
Epoch 7/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 3s 12ms/step - accuracy: 0.9917 - loss: 0.0293 - val_accuracy: 0.9726 - val_loss: 0.0937
Epoch 8/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 2s 12ms/step - accuracy: 0.9941 - loss: 0.0222 - val_accuracy: 0.9772 - val_loss: 0.0770
Epoch 9/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 3s 15ms/step - accuracy: 0.9963 - loss: 0.0158 - val_accuracy: 0.9779 - val_loss: 0.0787
Epoch 10/10
192/192 ━━━━━━━━━━━━━━━━━━━━ 5s 12ms/step - accuracy: 0.9976 - loss: 0.0115 - val_accuracy: 0.9781 - val_loss: 0.0817
313/313 ━━━━━━━━━━━━━━━━━━━━ 1s 3ms/step - accuracy: 0.9765 - loss: 0.0787
Test results - Loss: 0.07009122520685196 - Accuracy: 0.9800000190734863
1/1 ━━━━━━━━━━━━━━━━━━━━ 0s 71ms/step
```