# Untitled.txt

```
import tensorflow as tf from tensorflow import keras

#Load the MNIST dataset

(x_train, y_train), (x_test, y_test) = keras.datasets.mnist.load_data()

# Normalize the input data

x_train = x_train / 255.0

x_test = x_test/255.0

# Define the model architecture model = keras. Sequential ([keras.layers.
Flatten(inp ut_shape=(28, 28)), keras.layers.Dense (128,
activation='relu'), keras.layers.Dropout(0.2),

keras.layers.Dense(10)

1)

# Compile the model

model.compile(optimizer='adam',

loss=tf.keras.losses. SparseCategorical Crossentropy(from_logits=True),

metrics=['accuracy'])

# Train the model model.fit(x_train, y_train, epochs=10,

validation_data=(x_test, y_test))

# Evaluate the model test_loss, test_acc = model.evaluate(x_test, y_test,
verbose=2) print('Test accuracy:', test_acc)
```