```
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras import layers, models
(x train, y train), (x test, y test) = keras.datasets.mnist.load data()
x_train, x_test = x_train / 255.0, x_test / 255.0
model = models.Sequential([
  layers.Flatten(input shape=(28, 28)),
  layers.Dense(128, activation='relu'),
  layers.Dense(64, activation='relu'),
  layers.Dense(10, activation='softmax') ])
model.compile(optimizer='adam',
        loss='sparse categorical crossentropy',
        metrics=['accuracy'])
model.fit(x_train, y_train, epochs=5, validation_data=(x_test, y_test))
Epoch 1/5
   Epoch 2/5
   Epoch 3/5
   1875/1875 [===========] - 8s 5ms/step - loss: 0.0727 - accuracy: 0.9772 - val_loss: 0.0888 - val_accuracy: 0.9722
   Epoch 4/5
   Epoch 5/5
   <keras.src.callbacks.History at 0x7f8b9ba46350>
test_loss, test_accuracy = model.evaluate(x_test, y_test)
print("Test accuracy: ",test_accuracy*100)
   313/313 [============= - 1s 2ms/step - loss: 0.0839 - accuracy: 0.9747
   Test accuracy: 97.46999740600586
```