

```
import tensorflow as tf import numpy as np

x_train = np.array([i for i in range(0, 100)])

y_train = np.array([(1 if i % 2 == 0 else 0) for i in x_train])

model = tf.keras.Sequential([ tf.keras.layers.Dense(16, activation='relu', input_shape=(1,)),
tf.keras.layers.Dense(16, activation='relu'), tf.keras.layers.Dense(1, activation='sigmoid') ])

model.compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])

model.fit(x_train, y_train, epochs=50, verbose=1)

x_test = np.array([100, 101, 102, 103, 104])

y_test = np.array([(1 if i % 2 == 0 else 0) for i in x_test])

loss, accuracy = model.evaluate(x_test, y_test, verbose=0)

print(f'Test loss: {loss:.3}')

print(f'Test accuracy: {accuracy:.3}')
```