```
import tensorflow as tf
import numpy as np
mnist=tf.keras.datasets.mnist
(training_digits,training_labels),(test_digits,test_labels)=mnist.load_data()
print(tf.shape(test_digits))
     tf.Tensor([10000
                         28
                               28], shape=(3,), dtype=int32)
print(tf.shape(training labels))

    tf.Tensor([60000], shape=(1,), dtype=int32)

accuracy=0
training digits=training digits/255
test_digits=test_digits/255
k=3
for i in range(1000):
  11_distance=tf.abs(tf.add(training_digits,tf.negative(test_digits[i,:])))
  distance=tf.reduce sum(l1 distance,axis=1)
  distance=tf.reduce sum(distance,axis=1)
  nn index=tf argmin(distance)
                                   ining_labels[i], "True Label:", test_labels[i])
 Saved successfully!
     rest 941 Prediction: I True Label: /
     Test 942 Prediction: 7 True Label: 6
     Test 943 Prediction: 0 True Label: 6
     Test 944 Prediction: 6 True Label: 3
     Test 945 Prediction: 4 True Label: 2
     Test 946 Prediction: 2 True Label: 7
     Test 947 Prediction: 5 True Label: 8
     Test 948 Prediction: 7 True Label: 1
     Test 949 Prediction: 0 True Label: 1
     Test 950 Prediction: 7 True Label: 7
     Test 951 Prediction: 1 True Label: 5
     Test 952 Prediction: 0 True Label: 6
     Test 953 Prediction: 3 True Label: 4
     Test 954 Prediction: 7 True Label: 9
     Test 955 Prediction: 6 True Label: 5
```

```
Test 956 Prediction: 5 True Label: 1
     Test 957 Prediction:
                          0 True Label: 3
     Test 958 Prediction: 6 True Label: 3
     Test 959 Prediction: 1 True Label: 4
     Test 960 Prediction: 5 True Label: 7
     Test 961 Prediction: 1 True Label: 8
     Test 962 Prediction: 7 True Label: 9
     Test 963 Prediction: 8 True Label: 1
     Test 964 Prediction:
                          5 True Label: 1
     Test 965 Prediction: 0 True Label: 6
     Test 966 Prediction: 3 True Label: 9
     Test 967 Prediction: 4 True Label: 1
     Test 968 Prediction: 7 True Label: 4
     Test 969 Prediction:
                          7 True Label: 4
     Test 970 Prediction: 5 True Label: 5
     Test 971 Prediction: 7 True Label: 4
     Test 972 Prediction: 8 True Label: 0
     Test 973 Prediction: 6 True Label: 6
     Test 974 Prediction: 9 True Label: 2
     Test 975 Prediction: 3 True Label: 2
     Test 976 Prediction: 8 True Label: 3
     Test 977 Prediction: 6 True Label: 1
     Test 978 Prediction: 1 True Label: 5
     Test 979 Prediction: 0 True Label: 1
     Test 980 Prediction: 9 True Label: 2
     Test 981 Prediction:
                          7 True Label: 0
    Test 982 Prediction:
                          1 True Label: 3
    Test 983 Prediction: 3 True Label: 8
     Test 984 Prediction: 0 True Label: 1
     Test 985 Prediction: 5 True Label: 2
     Test 986 Prediction: 6 True Label: 6
     Test 987 Prediction: 4 True Label: 7
     Test 988 Prediction: 4 True Label: 1
     Test 989 Prediction: 2 True Label: 6
     Test 990 Prediction: 4 True Label: 2
     Test 991 Prediction: 4 True Label: 3
     Test 992 Prediction: 3 True Label: 9
                                   abel: 0
 Saved successfully!
                                   abel: 1
                                   abel: 2
     Test 996 Prediction:
                          6 True Label: 2
     Test 997 Prediction:
                           0 True Label: 0
     Test 998 Prediction:
                          3 True Label: 8
     Test 999 Prediction: 6 True Label: 9
for i in range(k):
 if (training_labels[nn_index]==test_labels[i]):
    accuracy+=1
print("Accuracy: ",(accuracy/1000)*100)
     Accuracy: 1.9
```

Saved successfully!