from keras.datasets import mnist

model.evaluate(new_test_data,new_test_target)

```
(train_data,train_target),(test_data,test_target)=mnist.load_data()
from keras.utils import np_utils
num_classes=10
new train target=np utils.to categorical(train target,num classes)
new_test_target=np_utils.to_categorical(test_target,num_classes)
train_data=train_data.reshape(train_data.shape[0],28,28,1)
test data=test data.reshape(test data.shape[0],28,28,1)
                                                                                              In []:
input shape=(28,28,1)
                                                                                              In []:
from keras.models import Sequential
from keras.layers import Dense, Conv2D, Flatten, MaxPooling2D, Dropout
                                                                                              In []:
model = Sequential()
model.add(Conv2D(32,(3,3),activation='relu', input shape=input shape))
model.add(Conv2D(64,(3,3),activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(Dropout(0.25))
model.add(Flatten())
model.add(Dense(256,activation='relu'))
model.add(Dropout(0.5))
model.add(Dense(num_classes,activation='softmax'))
                                                                                              In []:
model.compile(loss="categorical_crossentropy", optimizer="adam", metrics=['accuracy'])
                                                                                              In [ ]:
model.fit(new_train_data,new_train_target,epochs=10,validation_data=(new_test_data,new_test_t
arget), batch_size=128)
```

import numpy as np
pred = model.predict(test_data[:5])
print(np.argmax(pred,axis=1))

from matplotlib import pyplot as plt
for i in range (0,5):
 im=new_test_data[i].reshape(28,28)
 plt.imshow(im,cmap='gray')
 plt.show()