```
from keras.datasets import mnist
Data = mnist.load_data()
     Downloading data from <a href="https://storage.googleapis.com/tensorflow/tf-keras-datase">https://storage.googleapis.com/tensorflow/tf-keras-datase</a>
      ((x_train,y_train)),(x_test,y_test)= Data
x_train=x_train.reshape((x_train.shape[0],28*28)).astype('float32')
x_test=x_test.reshape((x_test.shape[0],28*28)).astype('float32')
#Normalising value from 0-255 to 0-1
x_{train} = x_{train}/255
x_test= x_test/255
from keras.utils import np_utils
print(y_test.shape)
y_train=np_utils.to_categorical(y_train)
y_test=np_utils.to_categorical(y_test)
num_classes= y_test.shape[1]
print(y_test.shape)
      (10000,)
      (10000, 10)
 Double-click (or enter) to edit
from keras.models import Sequential
from keras.layers import Dense
model= Sequential ()
model.add(Dense(32,input_dim=28*28,activation='relu'))
model.add(Dense(64,activation= 'relu'))
model.add(Dense(10,activation='softmax'))
model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])
```

model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 32)	25120
dense_1 (Dense)	(None, 64)	2112
dense_2 (Dense)	(None, 10)	650

Total params: 27,882 Trainable params: 27,882 Non-trainable params: 0

model.fit(x_train, y_train, epochs=10, batch_size=100)

```
Epoch 1/10
Epoch 2/10
600/600 [============== ] - 2s 3ms/step - loss: 0.2050 - accurac
Epoch 3/10
Epoch 4/10
Epoch 5/10
Epoch 6/10
Epoch 7/10
Epoch 8/10
Epoch 9/10
Epoch 10/10
<tensorflow.python.keras.callbacks.History at 0x7f75f7d68f90>
```

score= model.evaluate(x_test, y_test)
print(score)

313/313 [==================] - Os 1ms/step - loss: 0.1039 - accurac [0.10392550379037857, 0.9689000248908997]