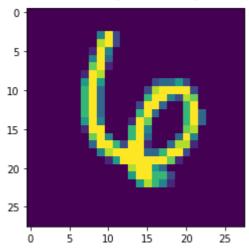
from keras.datasets import mnist
import matplotlib.pyplot as plt
from keras.utils import np\_utils

```
(X_train,y_train),(X_test,y_test) =mnist.load_data()
print(X_train.shape)
print(X_test.shape)
```

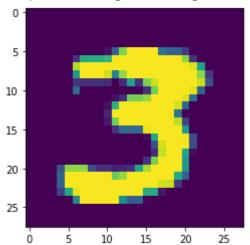
print("The label value is ",y\_test[22])
plt.imshow(X\_test[22])

The label value is 6
 <matplotlib.image.AxesImage at 0x7f054252a150>



print("The label value is ",y\_train[27])
plt.imshow(X train[27])

The label value is 3 <matplotlib.image.AxesImage at 0x7f0542010310>



```
X_train = X_train.reshape(60000, 28, 28, 1).astype('float32')
X_test = X_test.reshape(10000, 28, 28, 1).astype('float32')

number_of_classes= 10
y_train = np_utils.to_categorical(y_train,number_of_classes)
y_test = np_utils.to_categorical(y_test,number_of_classes)

print("After encoding the value 6 of y_test[22] become", y_test[22])

After encoding the value 6 of y_test[22] become [0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
```

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