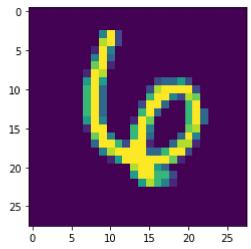
from keras.datasets import mnist
import matplotlib.pyplot as plt
from keras.utils import np\_utils

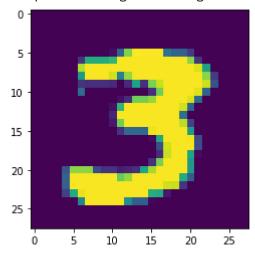
print("The label value is ",y\_test[22])
plt.imshow(X\_test[22])

The label value is 6 <matplotlib.image.AxesImage at 0x7febb3b85a10>



```
print("The label value is ",y_train[27])
plt.imshow(X_train[27])
```

The label value is 3 <matplotlib.image.AxesImage at 0x7febb3668bd0>



```
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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