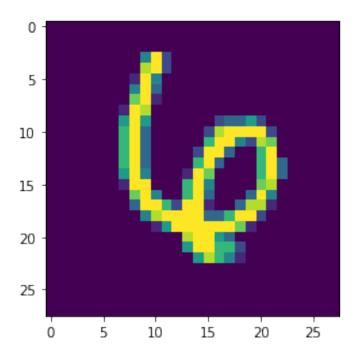
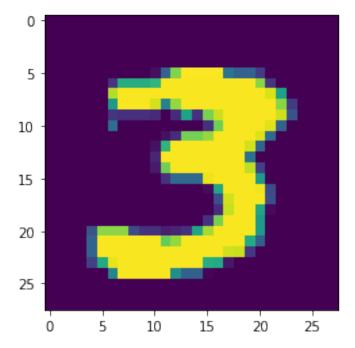
<matplotlib.image.AxesImage at 0x7f3f0a68ac50>



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

The label value is 3

<matplotlib.image.AxesImage at 0x7f3f0a17e150>



```
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. 1. 0. 0. 0.]
```