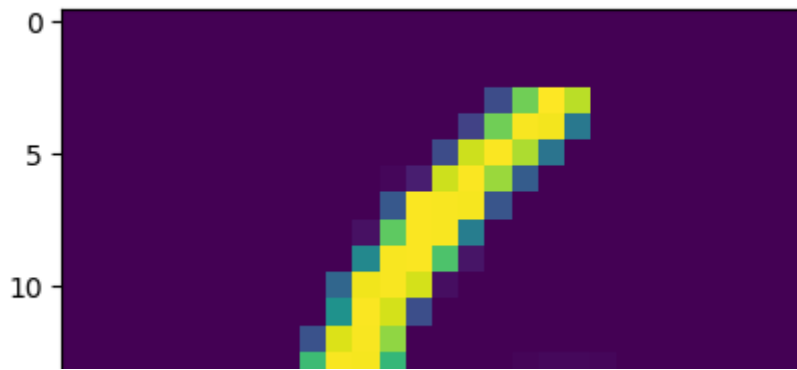


Team ID - PNT2022TMID07039

```
[ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3,
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0, 0],
[ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 39,
```

```
plt.imshow(x_train[6000]) #ploting the index=image
```

<matplotlib.image.AxesImage at 0x19f743b9540>



```
np.argmax(y_train[6000])
```

0



▼ Reshaping Dataset

```
23
```



```
#Reshaping to format which CNN expects (batch, height, width, channels)
```

```
x_train=x_train.reshape (60000, 28, 28, 1).astype('float32')
```

```
x_test=x_test.reshape (10000, 28, 28, 1).astype ('float32')
```

▼ Applying One Hot Encoding

```
number_of_classes = 10 #storing the no of classes in a variable
```

```
y_train = np_utils.to_categorical (y_train, number_of_classes) #converts the output in bin
```

```
y_test = np_utils.to_categorical (y_test, number_of_classes)
```

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