### **▼ IMPORT LIBRARIES**

```
import numpy
import tensorflow
from tensorflow.keras.datasets import mnist
from tensorflow.keras import layers
from tensorflow.keras.layers import Dense,Flatten
from tensorflow.keras.layers import Conv2D
from keras.optimizers import Adam
from keras.utils import np utils
```

### **▼ LOADING THE DATA**

## - ANALYSING THE DATA

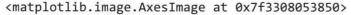
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y\_train[0]

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import matplotlib.pyplot as plt
plt.imshow(X\_train[0])





# Reshaping the data

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

# One Hot Encoding