In [ ]:
```
import cv2
import matplotlib.pyplot as plt
```

In [ ]:
```
Path=r'D:\Computer Vision\OCR\scooter np.jpg'
```

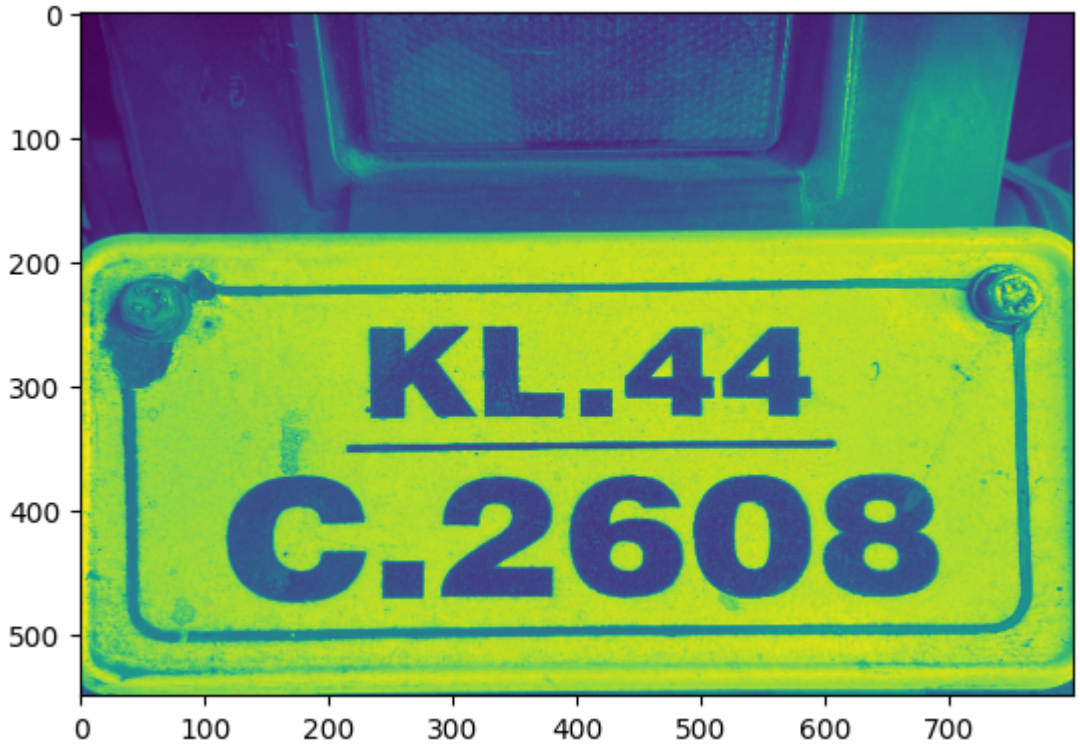
In [ ]:
```
img=cv2.imread(Path)
img=cv2.resize(img,dsize=[800,550])
```

In [ ]:
```
plt.imshow(img)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x26097a3a490>
```

In [ ]:
```
gray_img=cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
plt.imshow(gray_img)
```

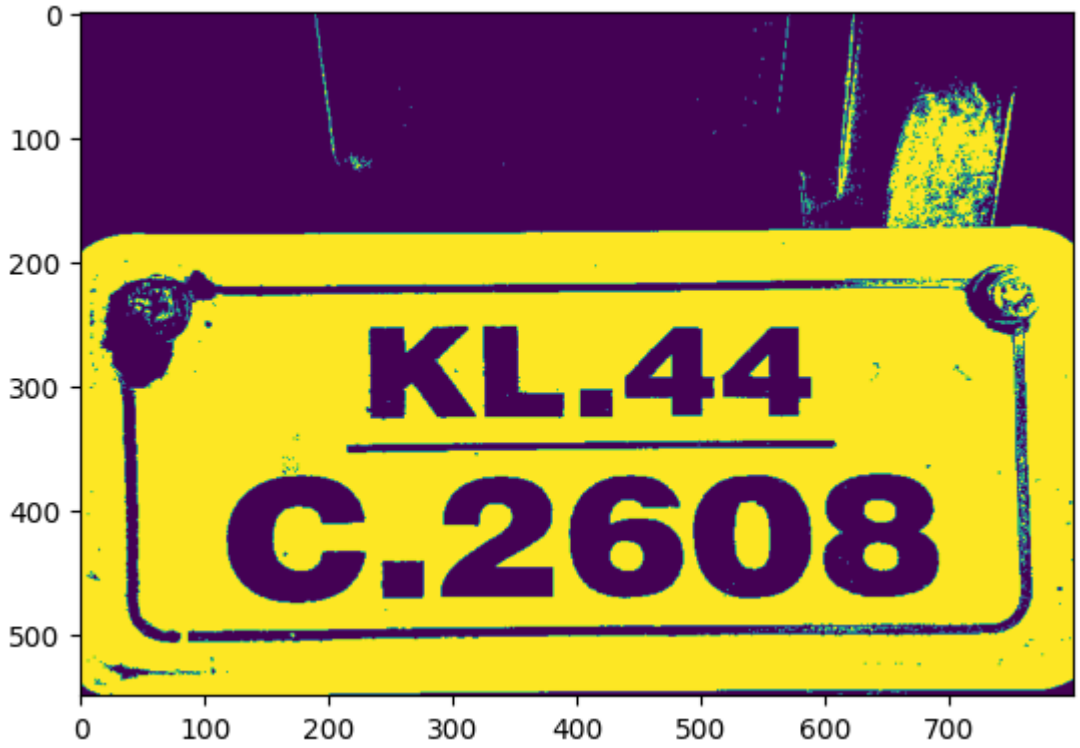
Out[ ]:
```
<matplotlib.image.AxesImage at 0x26098d59cd0>
```



In [ ]:
```
(thresh,binary_img)=cv2.threshold(gray_img,225,250,cv2.THRESH_BINARY + cv2.THRESH_OTSU)
```

In [ ]:
```
plt.imshow(binary_img)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x26098eefdd0>
```



In [ ]:
```
pytesseract.pytesseract.tesseract_cmd=r'C:\Program Files\Tesseract-OCR\tesseract.exe'
```

In [ ]:
```
text=pytesseract.image_to_string(binary_img,lang ='eng', config='--psm 12')
print(text)
```

```
\

KL.44 ,

C.2608
```

In [ ]:
```
import re
text=re.sub(r'[^\w\s]|[\n\r\t]','',text)
print(text)
```

```
KL44 C2608
```

In [ ]:
```
state=text[0:2]
rto=text[2:4]
no=text[4:10]
Vehicle_Number={'State':[state],'RTO':[rto],'Number':[no]}
Vehicle_Number
```

Out[ ]:
```
{'State': ['KL'], 'RTO': ['44'], 'Number': [' C2608']}
```

In [ ]:
```
df=pd.DataFrame(Vehicle_Number)
df
```

Out[ ]:

	State	RTO	Number
0	KL	44	C2608

In [ ]:
```
Path1=r'D:\Computer Vision\OCR\RJ-rajasthan-HSRP-number-plates.jpg'
img1=cv2.imread(Path1)
plt.imshow(img1)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x26099228fd0>
```

In [ ]:
```
gray_img1=cv2.cvtColor(img1,cv2.COLOR_BGR2GRAY)
plt.imshow(gray_img1)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x26099284d50>
```

In [ ]:
```
(thresh,binary_img1)=cv2.threshold(gray_img1,225,250,cv2.THRESH_BINARY + cv2.THRESH_OTSU)
plt.imshow(binary_img1)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x260990afb10>
```

In [ ]:
```
text1=pytesseract.image_to_string(binary_img1,lang ='eng', config='--psm 11')
print(text1)
```

```
RJ12CB0012
```

In [ ]:
```
state=text1[0:2]
rto=text1[2:4]
no=text1[4:10]
Vehicle_Number1={'State':state,'RTO':rto,'Number':no}
Vehicle_Number1
```

Out[ ]:
```
{'State': 'RJ', 'RTO': '12', 'Number': 'CB0012'}
```

In [ ]:
```
df=df.append(Vehicle_Number1,ignore_index=True)
df.reset_index(inplace=True,drop=True)
df.index+=1
df
```

```
C:\Users\User\AppData\Local\Temp\ipykernel_13560\2171873969.py:1: FutureWarning: The frame.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.
  df=df.append(Vehicle_Number1,ignore_index=True)
```

Out[ ]:

	State	RTO	Number
1	KL	44	C2608
2	RJ	12	CB0012

In [ ]:
```
df.to_excel('Vehicle_Registration.xlsx',index=False)
```