#### Test

#### November 5, 2020

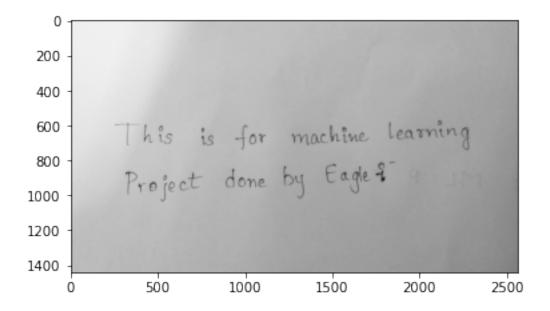
```
[7]: import pandas as pd
import numpy as np
import tensorflow as tf
from tensorflow.keras.models import load_model
from segmentImg import segmentGivenImage
import matplotlib.pyplot as plt
import cv2
import os
import glob
```

```
[9]: def predictImage(modelName,imagePath):
         model = load_model(modelName)
         input_map = dict()
         c = 'a'
         for i in range(26):
             input_map[i] = c
             c = chr(ord(c)+1)
         path = imagePath
         segmentGivenImage(path)
         folder = 'segmented_img/img1'
         images = []
         for filename in sorted(os.listdir(folder)):
             img = cv2.imread(os.path.join(folder,filename),0)
             if img is not None:
                 img = 255 - img
                 img = img.astype('float32')
                 img/=255
                 pred = model.predict(img.reshape(1,28,28,1))
                 plt.figure()
                 plt.imshow(img,cmap='Greys')
                 plt.show()
                 print("Prediction ",input_map[pred.argmax()])
                 print()
         files = glob.glob(folder+'/*')
         for f in files:
```

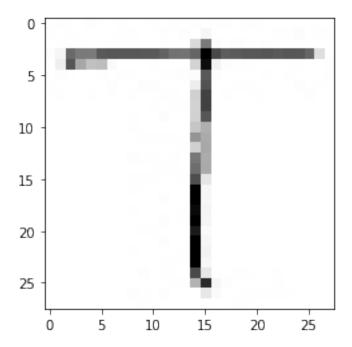
#### os.remove(f)

```
[10]: def inputImageViz(path):
    img = cv2.imread(os.path.join(path),0)
    img = 255 - img
    plt.figure()
    plt.imshow(img,cmap='Greys')
    plt.show()
```

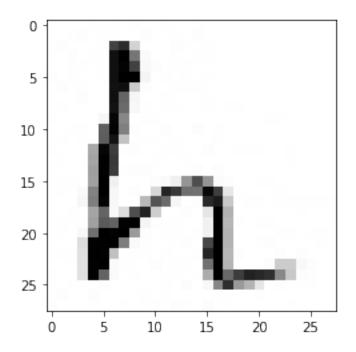
#### [17]: inputImageViz('img.jpg')



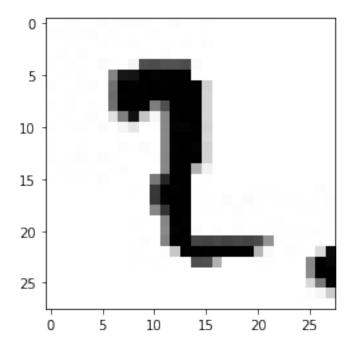
```
[18]: predictImage('charRecognization2.h5','img.jpg')
```



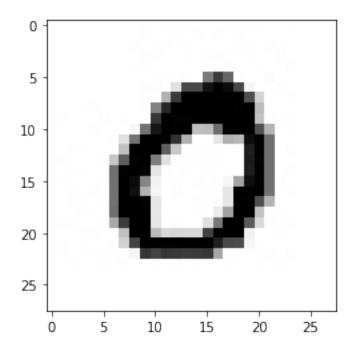
### Prediction t



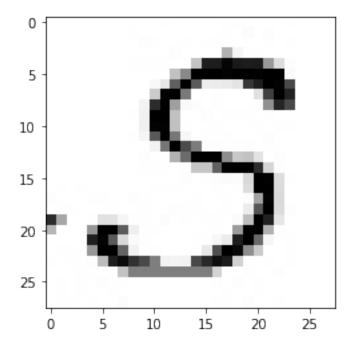
Prediction k



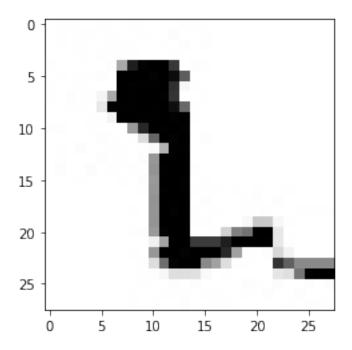
### Prediction z



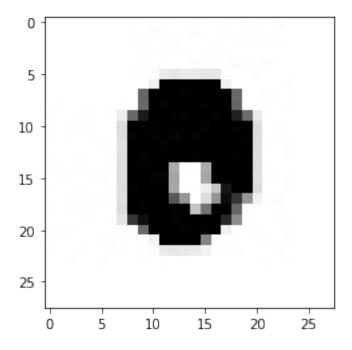
Prediction o



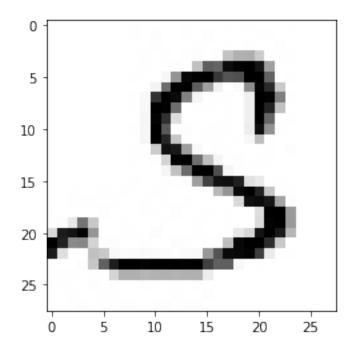
### Prediction s



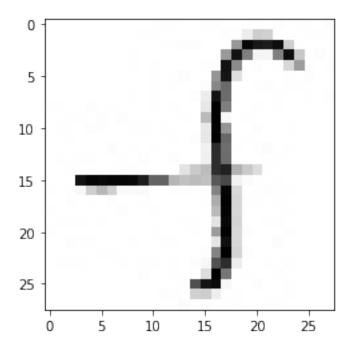
Prediction 1



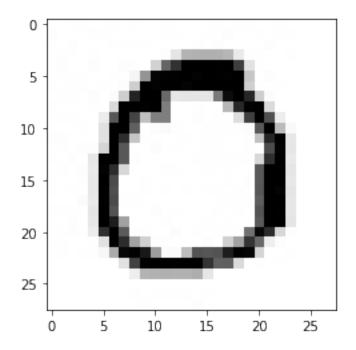
### Prediction o



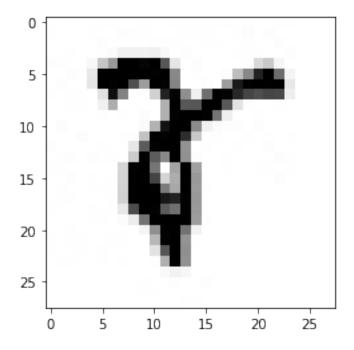
Prediction s



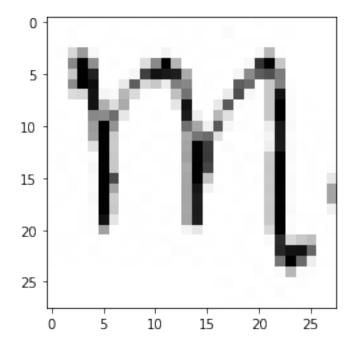
# Prediction y



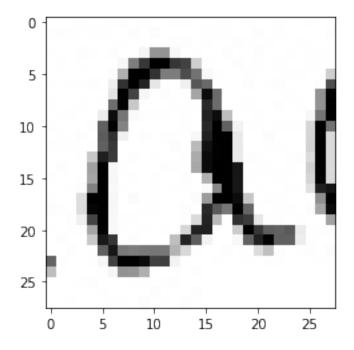
Prediction o



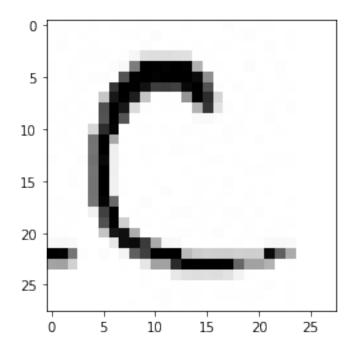
### Prediction u



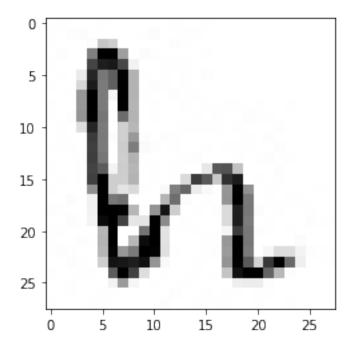
Prediction m



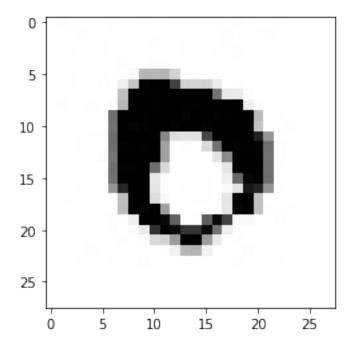
# Prediction q



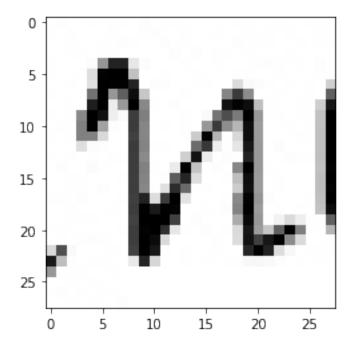
Prediction c



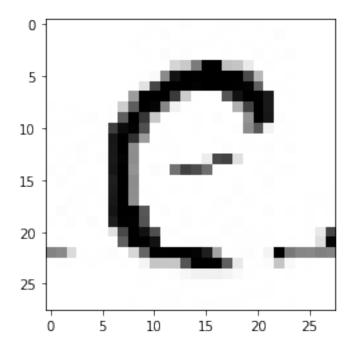
### Prediction w



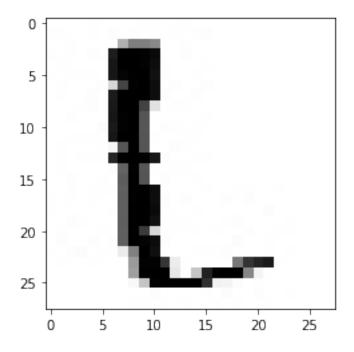
Prediction o



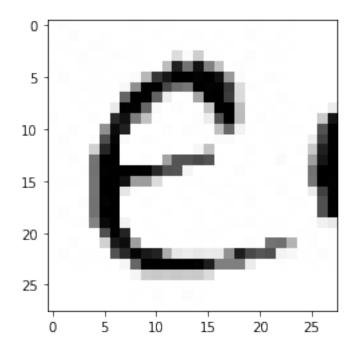
### Prediction w



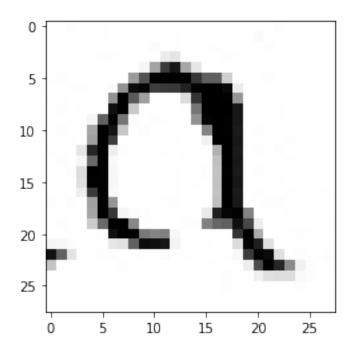
Prediction c



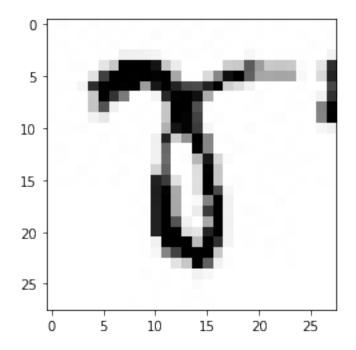
### Prediction 1



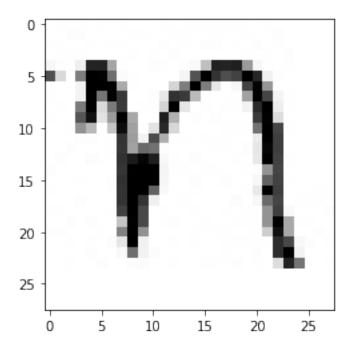
Prediction e



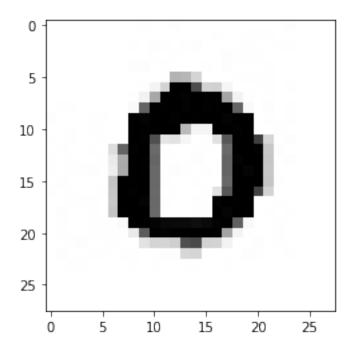
# Prediction q



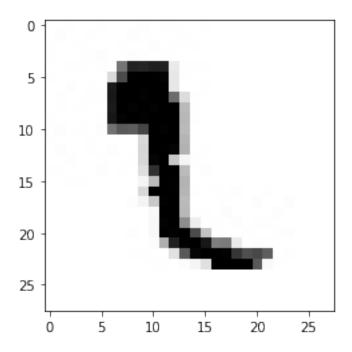
Prediction t



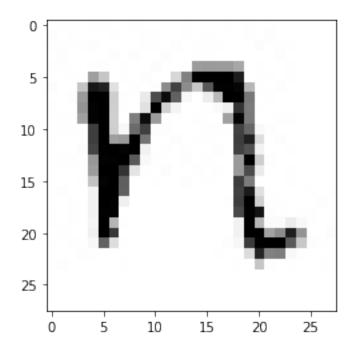
### Prediction m



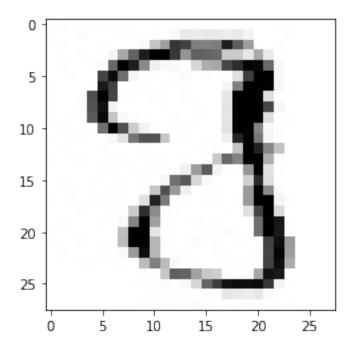
Prediction o



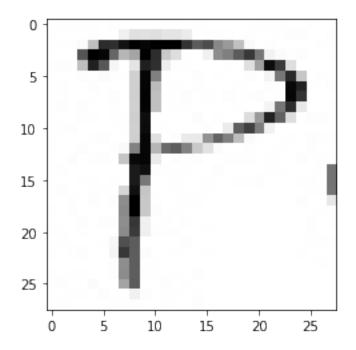
### Prediction 1



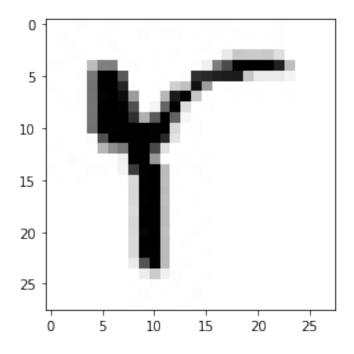
Prediction n



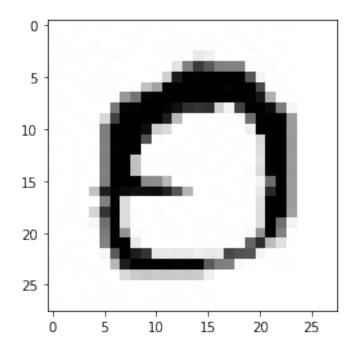
### Prediction z



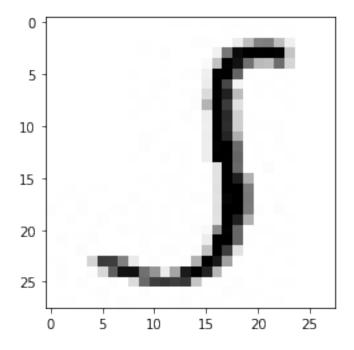
Prediction p



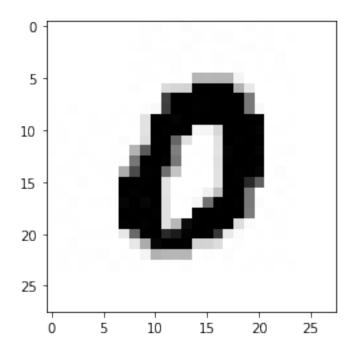
### Prediction t



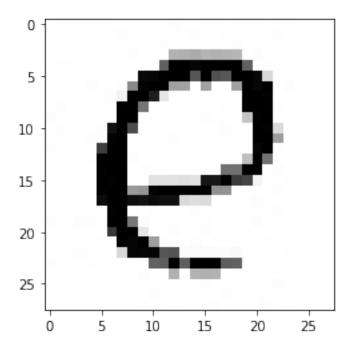
Prediction o



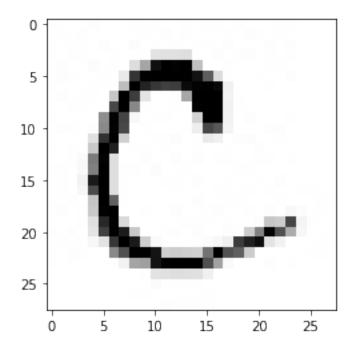
### Prediction j



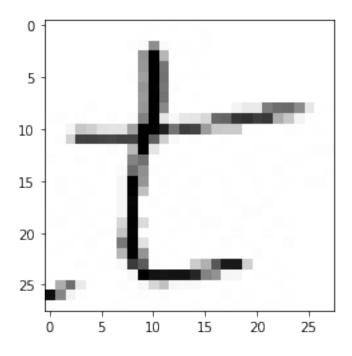
Prediction o



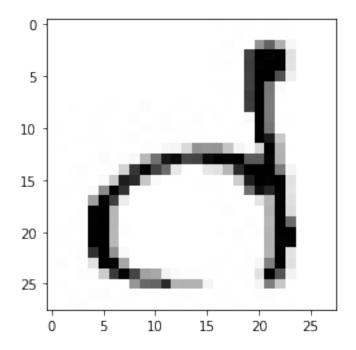
# Prediction q



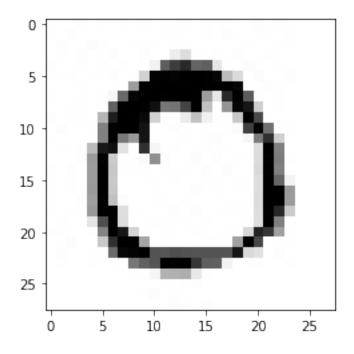
Prediction c



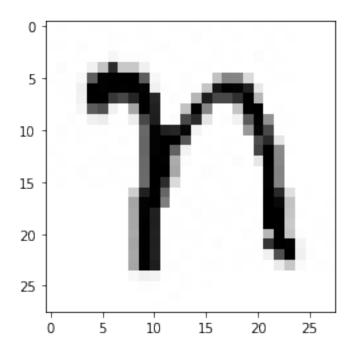
### Prediction k



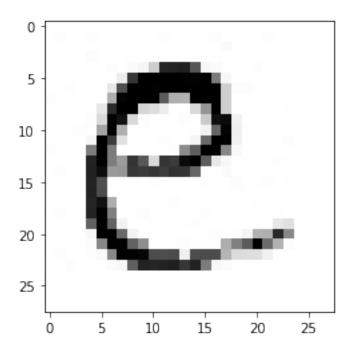
Prediction h



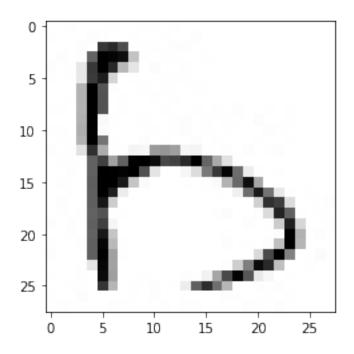
### Prediction o



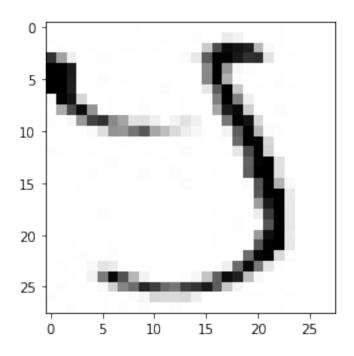
Prediction y



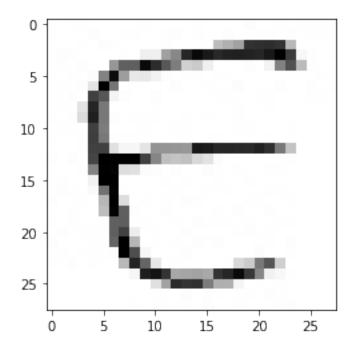
### Prediction c



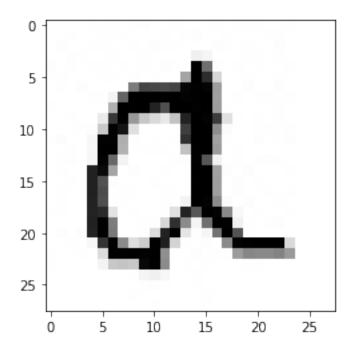
Prediction h



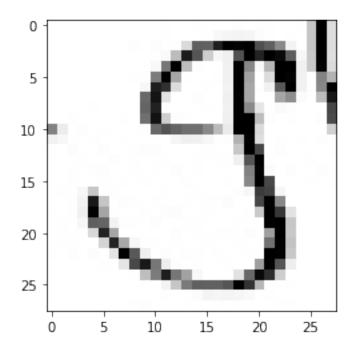
# Prediction y



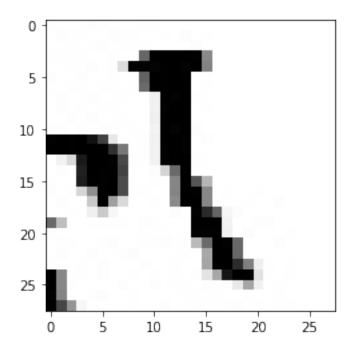
Prediction e



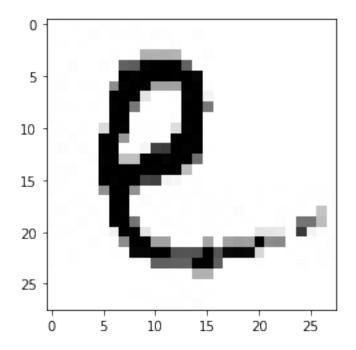
# Prediction q



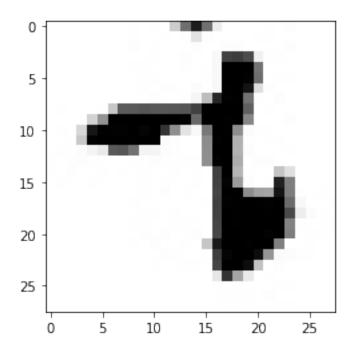
Prediction s



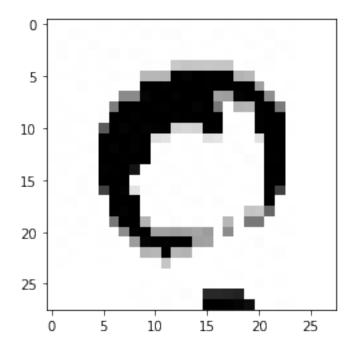
### Prediction y



Prediction e



### Prediction t



Prediction o

[]:[