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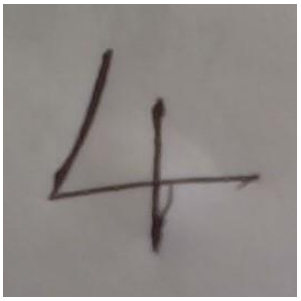
| Team ID | PNT2022TMID41253 |
| Project Name | A Novel Method For Handwritten Digit Recognition System |

**TEST WITH SAVED MODEL**

```
from tensorflow.keras.models import load_model
import os
import numpy as np
from tensorflow.keras.datasets import mnist
import matplotlib.pyplot as plt

model = load_model(os.getcwd()+'\model\mnist.h5')
from PIL import Image
result = []
for index in range(13):
    img = Image.open('data/'+str(20+index)+'.jpg')
    img = img.resize((28,28))
    img = img.convert("L")
    im2arr = np.array(img)
    im2arr = im2arr.reshape(1,28,28,1)
    #im2arr = im2arr/255.0
    y_pred = model.predict(im2arr)[0]

    result.append([20+index, '=', np.argmax(y_pred),'=',max(y_pred
print(*result,sep='\n')
```



0.JPG

1.JPG

```
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 47ms/step
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 16ms/step
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 16ms/step
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 16ms/step
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 16ms/step
1/1 [==============================] - ETA: 0s 
1/1 [==============================] - 0s 16ms/step
[0, '->', 4, '=', 1.0]
[1, '->', 6, '=', 1.0]
```