

```

1 from keras.models import load_model
2 from tkinter import *
3 import tkinter as tk
4
5 import win32gui
6 from PIL import ImageGrab, Image
7 import numpy as np
8 model = load_model('mnist.h5')
9
10
11 # In[2]:
12
13
14 def predict_digit(img):
15     #resize image to 28x28 pixels
16     img = img.resize((28,28))
17     #convert rgb to grayscale
18     img = img.convert('L')
19     img = np.array(img)
20     #reshaping to support our model input and normalizing
21     img = img.reshape(1,28,28,1)
22     img = img/255.0

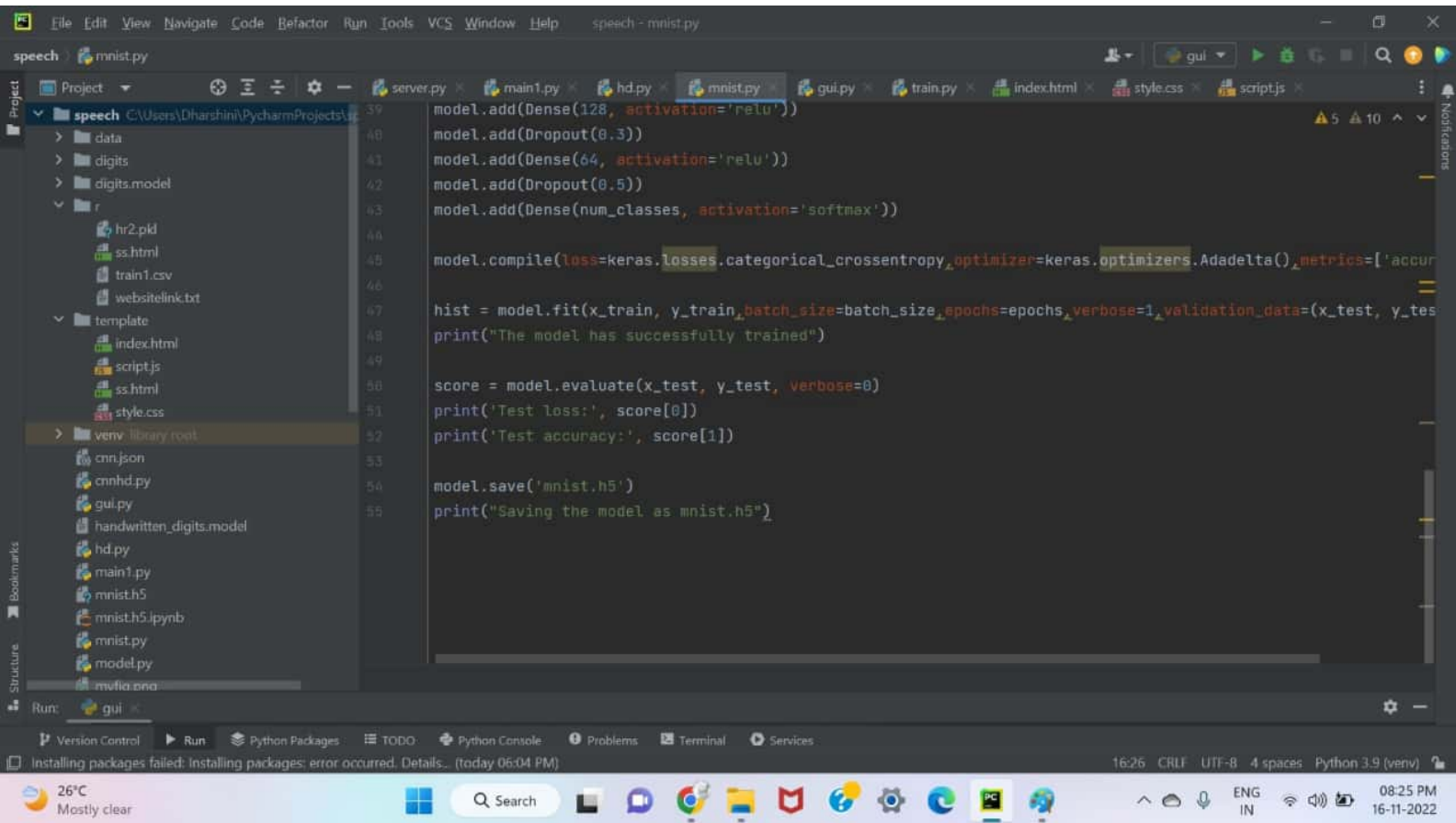
```

App → draw\_lines()

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```
server.py x main1.py x hd.py x mnist.py x gimp.py x  
1 import keras  
2 from keras.datasets import mnist  
3 from keras.models import Sequential  
4 from keras.layers import Dense, Dropout, Flatten  
5 from keras.layers import Conv2D, MaxPooling2D  
6 from keras import backend as K  
7  
8 # the data, split between train and test sets  
9 (x_train, y_train), (x_test, y_test) = mnist.load_data()  
10  
11 print(x_train.shape, y_train.shape)  
12  
13  
14 x_train = x_train.reshape(x_train.shape[0], 28, 28, 1)  
15 x_test = x_test.reshape(x_test.shape[0], 28, 28, 1)  
16 input_shape = (28, 28, 1)  
17  
18 y_train = keras.utils.to_categorical(y_train, 10)  
19 y_test = keras.utils.to_categorical(y_test, 10)  
20  
21 x_train = x_train.astype('float32')  
22 x_test = x_test.astype('float32')
```

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