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import cv2 #mporting opency Library this i to open camera and take the video
import numpy as np # to convert image to array and expand dimensions
from tensorflow.keras.models import load_model # to Load the saved model
from tensorflow.keras.preprocessing import image # to preprocess the image
model = load_model("dataset.h5") # we are loading the saved moodek
video = cv2.VideoCapture(0) # two parameters 1, bool 0 or 1, frame
index = ["A","B","C","D","E","F","G","H","I"]
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#from playsound import playsound
while(1):
  success,frame = video.read()
  cv2.imwrite("image.jpg",frame)
  img = image.load_img("image.jpg",target_size = (64,64))
  x = image.img_to_array(img)
  x = np.expand_dims (x,axis = 0)
  pred = np.argmax(model.predict(x),axis=1)
  p = index [pred[0]]
  print("predicted letter is: "+ str(p))
  #playSound("letter"+str(str(index [p])+"is detected"))
  cv2.putText (frame, "predicted letter is "+str(p), (100, 100), cv2. FONT_HERSHEY_SIMPLEX,
1,(0,0,0), 4)
  cv2.imshow("showcasewindow", frame)
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if cv2.waitkey(1) & 0xFF == ord('a'):
    break
video.release()
cv2.destroyAllwindows()
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