import cv2 #mporting opencv 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 preproccess 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)

if cv2.waitkey(1) & 0xFF == ord('a'):

break

video.release()

cv2.destroyAllwindows()