import sys

#sys.path.append('/home/shivam/Downloads/lib/python3.6/site-packages')

sys.path.append('/home/shivam/Downloads/face-recognition/lib/python3.6/site-packages')

import cv2

import face\_recognition

import pickle

name=input("enter name")

ref\_id=input("enter id")

try:

f=open("ref\_name.pkl","rb")

ref\_dictt=pickle.load(f)

f.close()

except:

ref\_dictt={}

ref\_dictt[ref\_id]=name

f=open("ref\_name.pkl","wb")

pickle.dump(ref\_dictt,f)

f.close()

try:

f=open("ref\_embed.pkl","rb")

embed\_dictt=pickle.load(f)

f.close()

except:

embed\_dictt={}

for i in range(5):

key = cv2. waitKey(1)

webcam = cv2.VideoCapture(0)

while True:

check, frame = webcam.read()

# print(check) #prints true as long as the webcam is running

# print(frame) #prints matrix values of each framecd

cv2.imshow("Capturing", frame)

small\_frame = cv2.resize(frame, (0, 0), fx=0.25, fy=0.25)

rgb\_small\_frame = small\_frame[:, :, ::-1]

key = cv2.waitKey(1)

if key == ord('s') :

face\_locations = face\_recognition.face\_locations(rgb\_small\_frame)

if face\_locations != []:

# filename="photo.jpg"

# cv2.imwrite(filename=filename, img=frame)

# image = face\_recognition.load\_image\_file(filename)

# image = Image.fromarray(frame)

# image = image.convert('RGB')

face\_encoding = face\_recognition.face\_encodings(frame)[0]

if ref\_id in embed\_dictt:

embed\_dictt[ref\_id]+=[face\_encoding]

else:

embed\_dictt[ref\_id]=[face\_encoding]

webcam.release()

# img\_new = cv2.imread('saved\_img.jpg', cv2.IMREAD\_GRAYSCALE)

# img\_new = cv2.imshow("Captured Image", img\_new)

cv2.waitKey(1)

cv2.destroyAllWindows()

break

elif key == ord('q'):

print("Turning off camera.")

webcam.release()

print("Camera off.")

print("Program ended.")

cv2.destroyAllWindows()

break

f=open("ref\_embed.pkl","wb")

pickle.dump(embed\_dictt,f)

f.close()