import cv2

import time

import datetime as dt

import data\_io

# load dataset

ayam\_cascade = cv2.CascadeClassifier('warna-warni4-cascade.xml')

# To capture frame

image = cv2.VideoCapture(0)

def waktu():

jam = dt.datetime.now().hour

menit = dt.datetime.now().minute

waktu = [jam, menit]

return waktu

def detection():

# read frame

\_, frame = image.read()

# flip image

# frame = cv2.flip(img, +1)

# convert to gray

gray = cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

# detect face

ayam\_s = ayam\_cascade.detectMultiScale(gray, scaleFactor=1.1, minNeighbors=1)

string = 'jumlah ayam : ' + str(len(ayam\_s))

# draw rectangle on the face

for (x, y, w, h) in ayam\_s:

cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 0), 2)

frame = cv2.putText(frame, string, (10, 450), cv2.FONT\_HERSHEY\_SIMPLEX,

0.8, (255, 255, 0), 2)

cv2.imshow('img', frame)

return len(ayam\_s)

def main():

total\_ayam = detection()

time = [7, 0]

jam = time[0]

menit = time[1]

set\_kendali = "<"+str(jam)+","+str(menit)+","+str(total\_ayam)+">"

#print(set\_kendali)

msg = data\_io.read()

sg = float(msg)

volume = -5.8824\*float(msg) + 129.41

if volume < 0.0:

volume = 0.0

mssg = set\_kendali + " "+ msg + " "+ str(sg)+ " " + str(volume)

print(mssg)

data\_io.write(set\_kendali)

if \_\_name\_\_ == '\_\_main\_\_':

while True:

main()

if cv2.waitKey(1) & 0xFF==ord('q'):

data\_io.close()

break

# release the VideoCapture

cv2.destroyAllWindows()