import numpy as np

import cv2

import io

import picamera

#creating a stream

stream = io.BytesIO()

#enabling picam to capture

with picamera.PiCamera()as camera:

 camera.capture(stream,format='jpeg')

#to use in opencv convert to array

numparray = numpy.fromstring(stream.getvalue(),dtype=numpy.uint8)

image = cv2.imdecode(numparray,1)

#create a variable for the cascade classifier

faceDetectset= cv2.CascadeClassifier('haarcascade\_frontalface\_default.xml');

#convert to gray scale

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

#now we can look for faces

faces = faceDetectset.detectMultiScale(gray,1.3,5);#scaling factors can be varied

for (x,y,w,h) in faces:

 #draw box on original

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

#show the output in window

cv2.imshow("Detected",img)

if cv2.waitKey()==ord('e'):

 break;

stream.truncate(0)

cv2.destroyAllWindows()