ASSIGNMENT - 6

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PYTHON CODE:
import cv2
import datetime
face_classifier=cv2.CascadeClassifier("haarcascade_frontalface_default.xml")
eye_classifier=cv2.CascadeClassifier("haarcascade_eye.xml")
#It will read the first frame/image of the video
video=cv2.VideoCapture(0)
while True:
  #capture the first frame
  check,frame=video.read()
  gray=cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
  cv2.imshow('video',gray)
  #detect the faces from the video using detectMultiScale function
  faces=face_classifier.detectMultiScale(gray,1.3,5)
  eyes=eye_classifier.detectMultiScale(gray,1.3,5)
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print(faces)
  #drawing rectangle boundries for the detected face
  for(x,y,w,h) in faces:
    cv2.rectangle(frame, (x,y), (x+w,y+h), (127,0,255), 2)
    cv2.imshow('Face detection', frame)
    cv2.putText(frame,'Face',ArithmeticError(x,y-
10),cv2.FONT_HERSHEY_COMPLEX_SMALL, 1, (255,0,0), 4)
    picname=datetime.datetime.now().strftime("%y-%m-%d-%H-%M")
    cv2.imwrite(picname+".jpg",frame)
  #drawing rectangle boundries for the detected eyes
  for(ex,ey,ew,eh) in eyes:
    cv2.rectangle(frame, (ex,ey), (ex+ew,ey+eh), (127,0,255), 2)
    cv2.imshow('Face detection', frame)
  #waitKey(1)- for every 1 millisecond new frame will be captured
  Key=cv2.waitKey(1)
  if Key==ord('q'):
    #release the camera
    video.release()
    #destroy all windows
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cv2.destroyAllWindows()

Break

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