ASSIGNMENT: 9(UPDATED

PYTHON CODE:

import cv2

cars\_classifier=cv2.CascadeClassifier("cars.xml")

video=cv2.VideoCapture("dataset\_video1.avi")

while True:

check,frame=video.read()

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

cars=cars\_classifier.detectMultiScale(gray,1.1,1)

print(cars)

#drawing rectangle boundries for the detected car

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

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

cv2.imshow('Car detection', frame)

# picname=datetime.datetime.now().strftime("%y-%m-%d-%H-%M")

# cv2.imwrite(picname+".jpg",frame)

#drawing rectangle boundries for the detected car

for(ex,ey,ew,eh) in cars:

cv2.rectangle(frame, (ex,ey), (ex+ew,ey+eh), (127,0,255), 2)

cv2.imshow('Car 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

cv2.destroyAllWindows()

break

OUTPUT SCREEN SHOT:

