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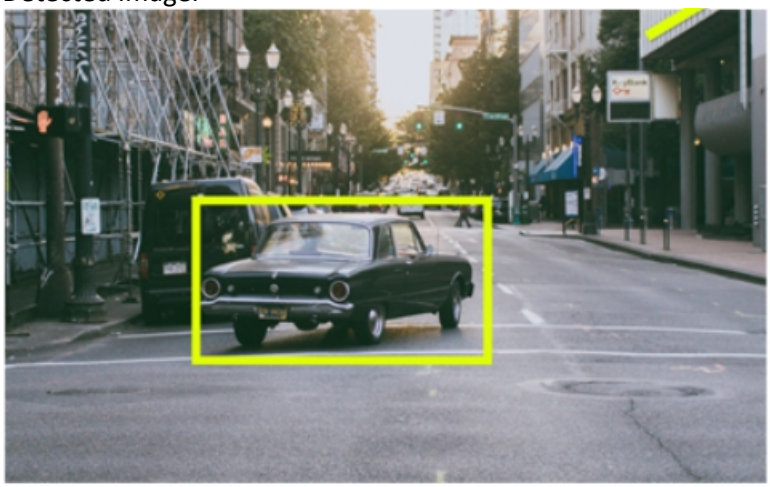
ASSIGNMENT 6:
Develop a python code to detect any object using Haar cascade classifier

PROGRAM CODE:

```
import cv2
import datetime
car_classifier=cv2.CascadeClassifier("cars.xml")
body_classifier=cv2.CascadeClassifier("body.xml")


img=cv2.imread('car.jpg')
gray=cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)


#detect the car from the image using detectMultiScale function
car=car_classifier.detectMultiScale(gray,1.3,5)
body=body_classifier.detectMultiScale(gray,1.3,5)


#drawing rectangle boundries for the detected car
for(fx,fy,fw,fh) in car:
   cv2.rectangle(img, (fx,fy), (fx+fw,fy+fh), (127,0,255), 2)
   cv2.imshow('Car detection', img)

#drawing rectangle boundries for the detected body
for(egx,egy,egw,egh) in body :
   cv2.rectangle(img, (egx,egy), (egx+egw,egy+egh), (127,0,255), 2)
   cv2.imshow('body detection', img)
```

OUTPUT: Original Image of the car

Detected Image:



Full Body Detection: