ASSIGNMENT-6

NAME: Arthi Murugan

REG NO: 19BEC0513

CODE:

```
import time
import numpy as np
import cv2
#Create body classifier
obj_classifier=cv2.CascadeClassifier('\haarcascade_car.xml')
#Initiate video capture for video file
cap = cv2.VideoCapture('/vehicle.mp4')
#Loop once video is successfully loaded
while cap.isOpened():

    time.sleep(.05)
    # Read first frame
    ret, frame = cap.read()
    gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)

    # Pass frame to object classifier
    obj = obj_classifier.detectMultiScale(gray, 1.1, 2)

    # Extract bounding boxes for any bodies identified
    for (x,y,w,h) in obj:
        cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 255), 2)
        cv2.imshow('Cars', frame)if cv2.waitKey(1) == 13: #13 is the Enter Key
        break
cap.release()
cv2.destroyAllWindows()
```

OUTPUT: