ASSIGNMENT-6

Python code:

```
import cv2
print(cv2.__version__)


cascade_src = 'cars.xml'
video_src = 'dataset/video1.avi'
#video_src = 'dataset/video2.avi'
cap = cv2.VideoCapture(video_src)
car_cascade = cv2.CascadeClassifier(cascade_src)


while True:
    ret, img = cap.read()
    if (type(img) == type(None)):
        break
```

```
    gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

    cars = car_cascade.detectMultiScale(gray, 1.1, 1)

    for (x,y,w,h) in cars:
        cv2.rectangle(img,(x,y),(x+w,y+h),(0,0,255),2)

    cv2.imshow('video', img)

    if cv2.waitKey(33) == 27:
        break

cv2.destroyAllWindows()
```