

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()
```

