# IOT ASSIGNMENT-6

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Develop a python code to detect any object using Haar cascade classifier. CODE:

```
import cv2


# capture frames from a video
cap =cv2.VideoCapture('carv2.mp4')


# Trained XML classifiers describes some features of some object we want to detect
car_cascade = cv2.CascadeClassifier('cardetect.xml')


# loop runs if capturing has been initialized.
while True:
    ret, frames = cap.read()
    gray=cv2.cvtColor(frames,cv2.COLOR_BGR2GRAY) cars=
    car_cascade.detectMultiScale(gray,1.1,1)
    for (x,y,w,h)in cars:
        cv2.rectangle(frames,(x,y),(x+w,y+h),(0,0,255),2) cv2.imshow('sKSama',frames)
    if cv2.waitKey(33) == 27:
        break


# De-allocate any associated memory usage
cv2.destroyAllWindows()
```

OUTPUT:

File Edit Format Run Options Window Help

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        cv2.rectangle(frames, (x, y), (x+w, y+h), (0, 0, 255), 2)
    cv2.imshow('sKSama', frames )
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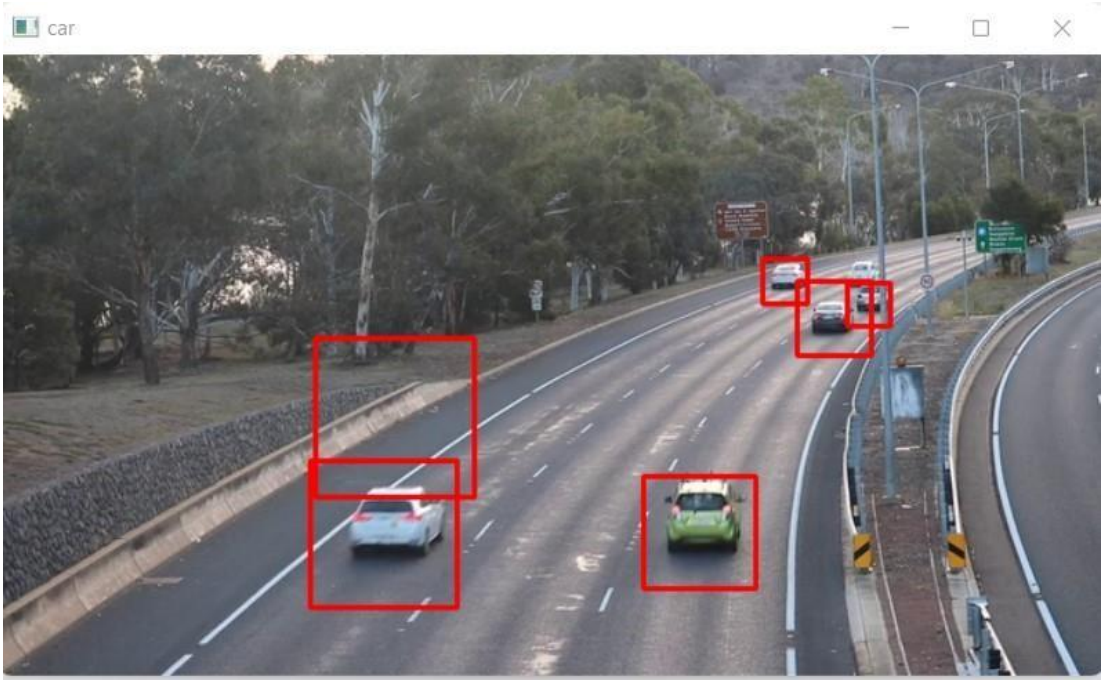
Ln: 5 Col: 0




car