ASSIGNMENT – 6

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PROBLEM STATEMENT: To develop a python code to detect two wheelers using Haar cascade classifier.

PYTHON CODE:

```python
import cv2

cam = cv2.VideoCapture('two_wheeler2.mp4')

car_cascade = cv2.CascadeClassifier('two_wheeler.xml')


while (cam.isOpened()):

    ret, img = cam.read()

    if (type(img) == type(None)):

        break

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

    cars = car_cascade.detectMultiScale(gray,1.01,1)


    for (x,y,w,h) in cars:

        cv2.rectangle(img,(x,y),(x+w,y+h),(0,255,215),2)

        cv2.imshow('video', img)

    if cv2.waitKey(25) &  0xFF==ord('q'):

        break


cam.release()

cv2.destroyAllWindows()
```