ASSIGNMENT 6

NAME:CH.JOHN ABHISHEK

abhishek.18bev7011@vitap.ac.in

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

CODE:

```
import cv2 import
time import numpy
as np


# Create our body classifier car_classifier =
cv2.CascadeClassifier('haarcascade_car.xml')


# Initiate video capture for video file cap =
cv2.VideoCapture('image_examples_cars.avi')



# 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 our car classifier cars = car_classifier.detectMultiScale(gray, 1.4, 2) # Extract bounding boxes for any bodies identified

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

cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 255), 2) cv2.imshow('Cars', frame) cv2.putText(frame, 'car', (x, y - 10), cv2.FONT_HERSHEY_SIMPLEX, 1, (255, 0, 0), 4)

#waitKey(1)- for every 1 millisecond new frame will be captured Key=cv2.waitKey(1)

if Key==ord('q'):

#release the camera

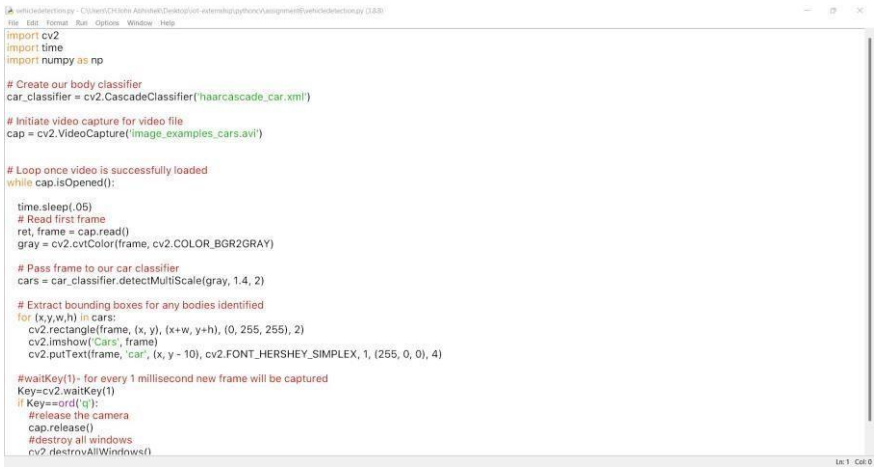
cap.release()

#destroy all windows

cv2.destroyAllWindows()

break

OUTPUT:




Cars


Cars