**ASSIGNMENT-6**

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

**PYTHON CODE::**

import time

import numpy as np

import cv2

# Create our body classifier

car\_classifier = cv2.CascadeClassifier('\haarcascade\_car.xml')

# Initiate video capture for video file

cap = cv2.VideoCapture('/cars.mp4')

# 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, 1.1, 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)

if cv2.waitKey(1) == 13: #13 is the Enter Key

break

cap.release()cv2.destroyAllWindows()

**DETECTED PICTURE IN VIDEO::**

