## **ASSIGNMENT 6**

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

## CODE

```
import cv2
import numpy as np
car_classifier = cv2.CascadeClassifier('haarcascade_car.xml')
cap = cv2.VideoCapture('cars.mp4')
while cap.isOpened():
   time.sleep(.05)
   ret, frame = cap.read()
  gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
   cars = car_classifier.detectMultiScale(gray, 1.4, 2)
   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()
```

## **OUTPUT**



