ASSIGNMENT-6

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

CODE:

```
A CarDetection.py - C\Users\guish\OneDrive\Desktop\Object_Detection\CarDetection.py (3.9.6)
File Edit Format Run Options Window Help
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('Traffic - 27260.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, 1.4, 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)
     if cv2.waitKey(1) == 13: #13 is the Enter Key
cap.release()
cv2.destroyAllWindows()
```

OUTPUT:

