# VIT-IOT

# (INDUSTRY CERTIFICATE INTERNSHIP PROGRAM)

# ASSIGNMENT-6



**NAME:** GOPINATH K

**REG.NO.:** 19BEC10003

**MAIL ID:** gopinath.k2019@vitbhopal.ac.in

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

## CODE:

```python
import time
import numpy as np
import cv2
car_classifier = cv2.CascadeClassifier('\haarcascade_car.xml')
cap = cv2.VideoCapture('/vehicle.mp4')
while cap.isOpened():
    time.sleep(.05)
    ret, frame = cap.read()
    gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
    cars = car_classifier.detectMultiScale(gray, 1.1, 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: #enter key
        break
cap.release()
cv2.destroyAllWindows()
```