**IOT ASSIGNMENT 9**

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

import cv2

face\_cascade = cv2.CascadeClassifier('haarcascade\_frontalface\_default.xml')

# Read the input image

#img = cv2.imread('face.png')

cap = cv2.VideoCapture('face.mp4')

while cap.isOpened():

\_, img = cap.read()

img=cv2.resize(img,(600,400))

gray = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

faces = face\_cascade.detectMultiScale(gray, 1.1, 4)

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

cv2.rectangle(img, (x,y), (x+w, y+h), (255, 0 , 0), 3)

# Display the output

cv2.imshow('img', img)

if cv2.waitKey(1) & 0xFF == ord('q'):

break

cap.release()