

Assignment 6

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

OBJECT DETECTING: WALKING PEDESTRIANS

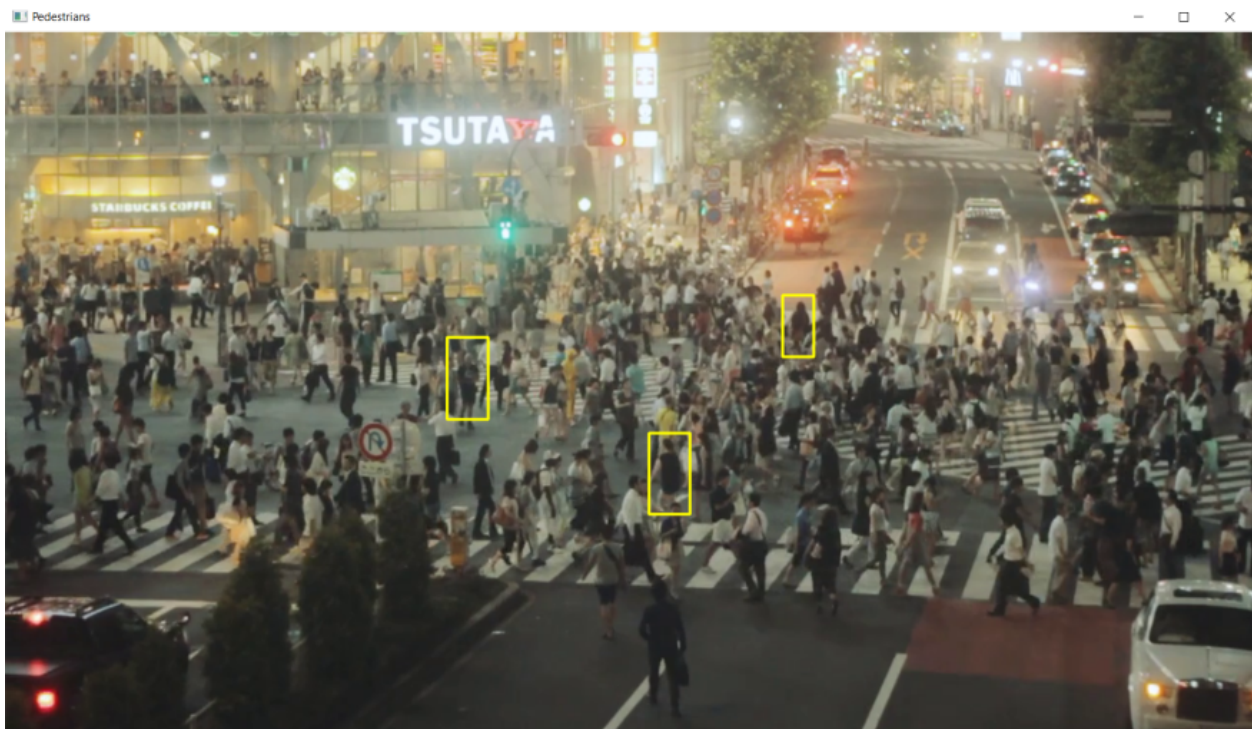
CODE:

```
import numpy as np
import cv2
# Create our body classifier
body_classifier = cv2.CascadeClassifier("haarcascade_fullbody")
# Initiate video capture for video file
cap = cv2.VideoCapture('video3.mp4')
# Loop once video is successfully loaded
while True:

    # Read first frame
    ret, frame = cap.read()
    gray=cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
    #cv2.imshow('Video',gray)
    # Pass frame to our body classifier
    bodies = body_classifier.detectMultiScale(gray, 1.1, 3)

    # Extract bounding boxes for any bodies identified
    for (x,y,w,h) in bodies:
        cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 255), 2)
        cv2.imshow('Pedestrians', frame)
    Key=cv2.waitKey(1)
    if Key==ord('q'):
        #release the camera
        cap.release()
        #destroy all windows
        cv2.destroyAllWindows()
        break
```

OUTPUT:





Detecting the walking pedestrians in the video.