ASSIGNMENT 6

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

ped.py - C:\Users\91825\Desktop\assignments\ped.py (3.9.6)

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```
import cv2
import numpy as np

# Create our body classifier
body_classifier = cv2.CascadeClassifier('haarcascade_fullbody.xml')

# Initiate video capture for video file
cap = cv2.VideoCapture('WALK.mp4')

# Loop once video is successfully loaded
while cap.isOpened():

    # Read first frame
    ret, frame = cap.read()
    #frame = cv2.resize(frame, None,fx=0.5, fy=0.5, interpolation = cv2.INTER_LINEAR)

    gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
    # Pass frame to our body classifier
    bodies = body_classifier.detectMultiScale(gray, 1.2, 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)

    if cv2.waitKey(1) == 13: #13 is the Enter Key
        break

cap.release()
cv2.destroyAllWindows()
```

OUTPUT:


Pedestrians
CABO VERDE
NO STRESS