ASSIGNMENT-6

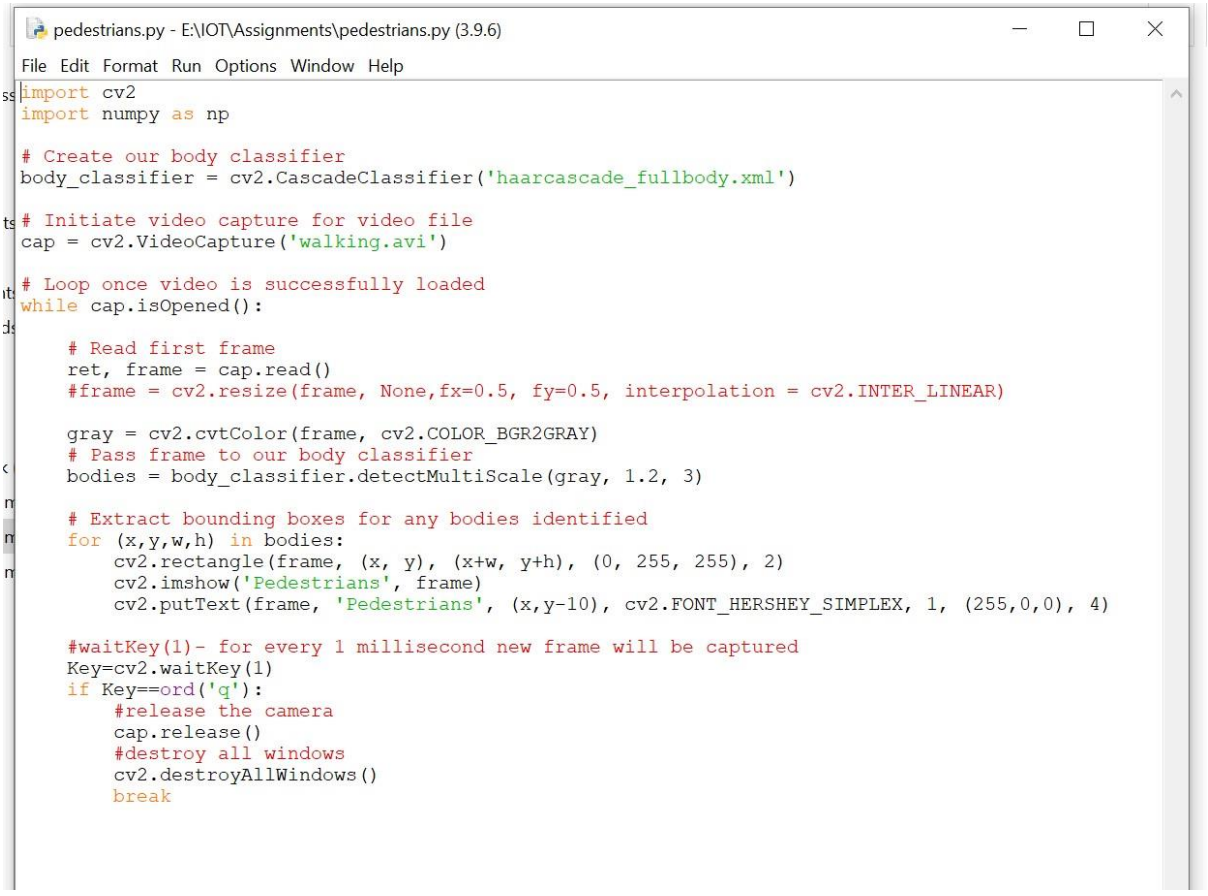
K.Surendra Babu

18BEC7090

Surendra.18bec7090@vitap.ac.in

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

CODE:



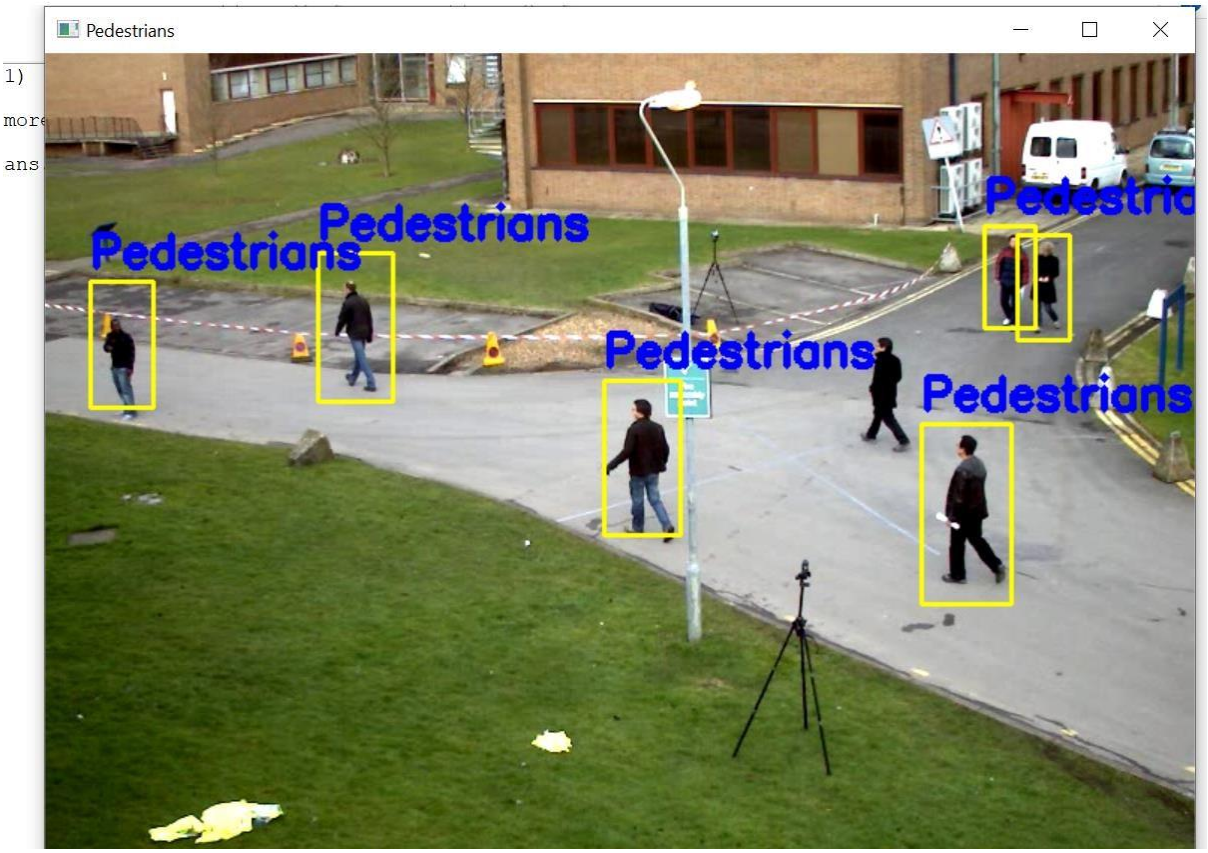
import cv2 import

numpy as np

```
# Create our body classifier body_classifier =
cv2.CascadeClassifier('haarcascade_fullbody.xml') # Initiate video
capture for video file cap = cv2.VideoCapture('walking.avi')


# 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)        cv2.putText(frame, 'Pedestrians', (x,y-10), cv2.FONT_HERSHEY_SIMPLEX, 1,
(255,0,0), 4)


   #waitKey(1)- for every 1 millisecond new frame will be captured
Key=cv2.waitKey(1)
```

```
    if Key==ord('q'):
#release the camera
cap.release()        #destroy all
windows
cv2.destroyAllWindows()

        break
```

OUTPUT:



By using HAAR CASCADE classifier, the python code detected Pedestrains from video who are walking on the streets.