VIT IOT - (Industry Certificate Program)

B SRAVAN KUMAR

Assignment 6

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

CODE:

```
import cv2
import numpy as np
body_classifier =
cv2.CascadeClassifier('haarcascade_fullbody.xml')
cap = cv2.VideoCapture('crowd.mp4')

while
  cap.isOpened(
  ): 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)
  bodies = body_classifier.detectMultiScale(gray, 1.2, 3)

  for (x,y,w,h) in bodies:
    cv2.rectangle(frame, (x, y), (x+w, y+h), (0,
    255, 255), 2)cv2.imshow('People detected',
    frame) cv2.putText(frame, 'People
```

detected', (x,y-10),

cv2.FONT_HERSHEY_SIMPLEX, 1,

(255,0,0), 4)

Key=cv2.w

aitKey(1)if

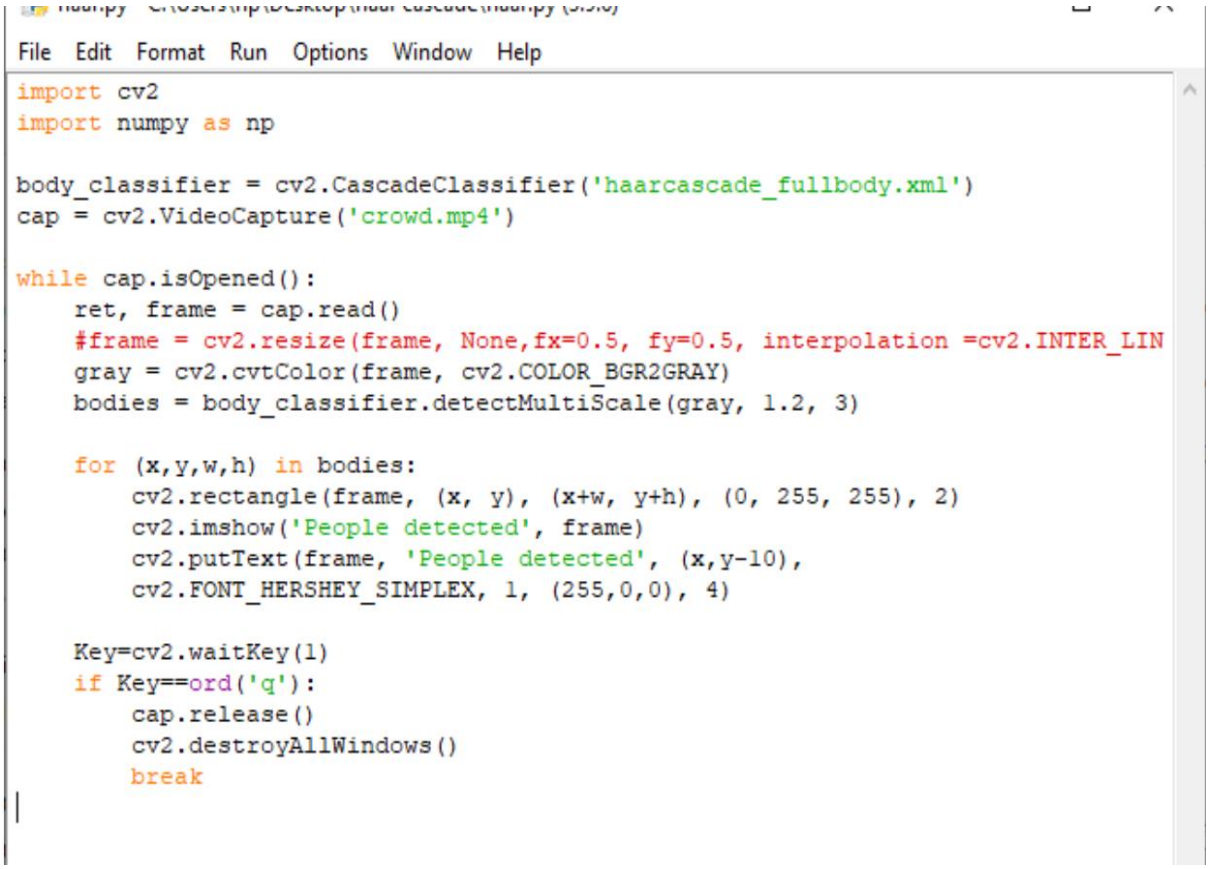
Key==ord('

q'):

cap.release()

cv2.destroyAllWindo

ws()break



OUTPUT: