VIT SMART BRIDGE IOT EXTERNSHIP PROGRAM

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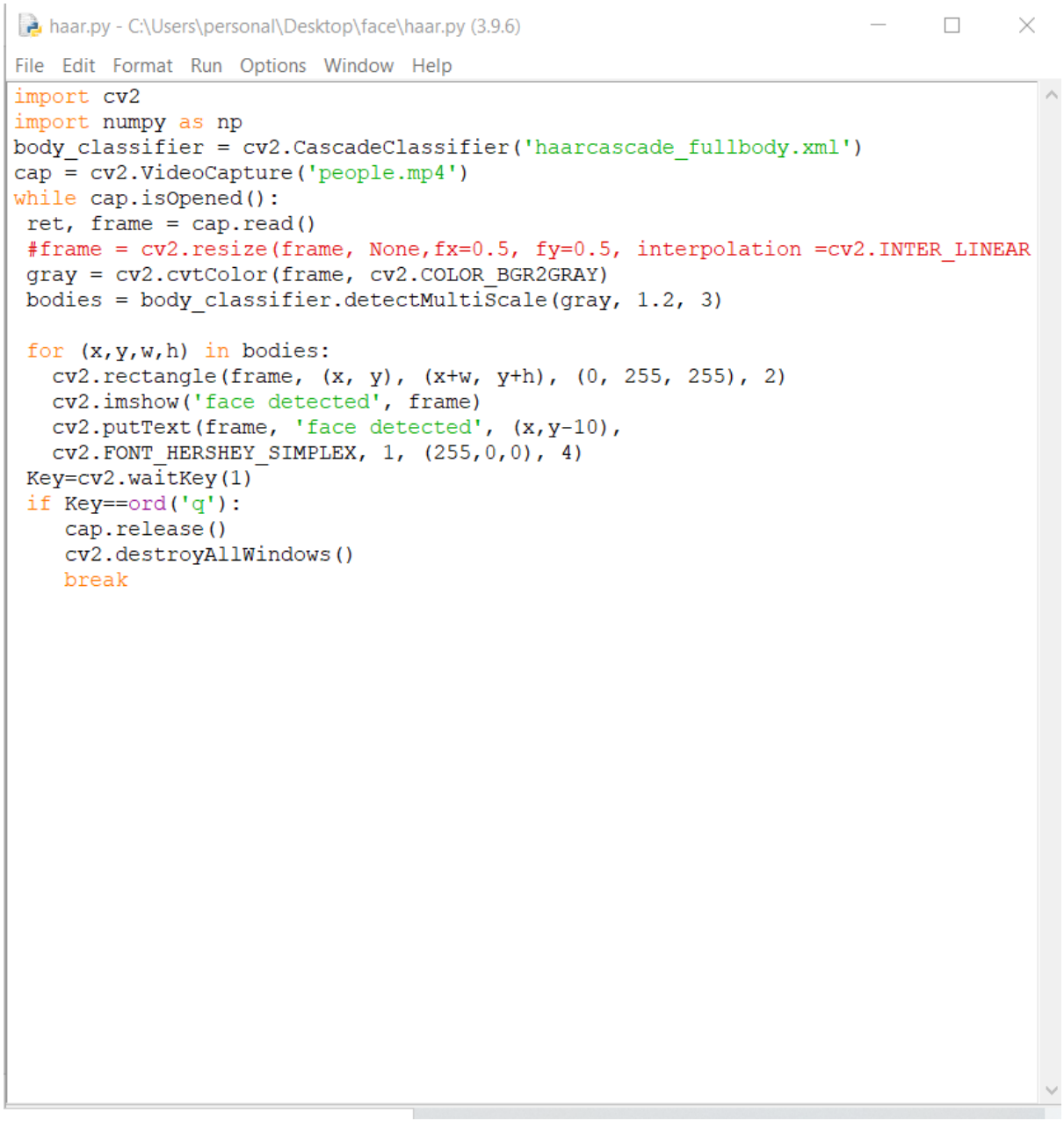
Assignment-6:

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('people.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('face detected', frame)
   cv2.putText(frame, 'face detected', (x,y-10),
   cv2.FONT_HERSHEY_SIMPLEX, 1, (255,0,0), 4)
 Key=cv2.waitKey(1)
 if Key==ord('q'):
    cap.release()
    cv2.destroyAllWindows()
     break
```

OUTPUT: