

## Problem Statement:

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# RUSH ESTIMATOR FOR CORPORATE CAFETERIA

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## Source code :-

```
import cv2

import os

cascPath=os.path.dirname(cv2.__file__)+"/data/haarcascade_frontalface_default.xml"

faceCascade = cv2.CascadeClassifier(cascPath)

video_capture = cv2.VideoCapture(0)

while True:

    # Capture frame-by-frame

    ret, frames = video_capture.read()

    gray = cv2.cvtColor(frames, cv2.COLOR_BGR2GRAY)

    faces = faceCascade.detectMultiScale(

        gray,

        scaleFactor=1.1,

        minNeighbors=5,

        minSize=(30, 30),

        flags=cv2.CASCADE_SCALE_IMAGE

    )

    # Draw a rectangle around the faces

    for (x, y, w, h) in faces:

        cv2.rectangle(frames, (x, y), (x+w, y+h), (0, 255, 0), 2)

    # Display the resulting frame

    cv2.imshow('Video', frames)
```

```
if cv2.waitKey(1) & 0xFF == ord('q'):
```

```
    break
```

```
video_capture.release()
```

```
cv2.destroyAllWindows()
```

## DEMO OUTPUT:



