

```
1 import time
2 import cv2
3 from picamera.array import PiRGBArray
4 from picamera import PiCamera
5
6
7
8 i=0
9 face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
10 camera = PiCamera()
11 camera.resolution = (768, 480)
12 camera.framerate = 32
13 rawCapture = PiRGBArray(camera, size=(768, 480))
14 time.sleep(0.1)
15
16 for frame in camera.capture_continuous(rawCapture, format="bgr",
    use_video_port=True):
17
18     image = frame.array
19     gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
20     faces = face_cascade.detectMultiScale(gray, 1.3, 6,0,(80,80),(300,300))
21
22     for x,y,w,h in faces :
23         cv2.rectangle(image,(x,y),(x+w,y+h),(0,255,0),2)
24         roi_gray = gray[y:y+h, x:x+w]
25         cv2.imwrite("images/img"+str(i+1)+".jpg",roi_gray)
26         i=i+1
27
28     cv2.imshow("Frame", image)
29     key = cv2.waitKey(1) & 0xFF
30     rawCapture.truncate(0)
31
32
33     if key == ord("q"):
34         break
35
```