

```
1 import cv2
2 import numpy as np
3
4 # Load an Image
5 image = cv2.imread('image.png')
6
7 # Preprocess the Image
8 gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
9 blur = cv2.GaussianBlur(gray, (5, 5), 0)
10
11 # Edge Detection
12 edges = cv2.Canny(blur, 30, 150) # Adjust threshold values as needed
13
14 # Find Contours
15 contours, _ = cv2.findContours(edges.copy(), cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)
16
17 # Draw Contours
18 contour_image = np.zeros_like(image)
19 cv2.drawContours(contour_image, contours, -1, (0, 255, 0), 2)
20
21 # Saving Contours
22 cv2.imwrite('output/ContourImage.png', contour_image)
23 cv2.imwrite('output/Image.png', image)
```

