

```
!pip install imutils
```

```
Requirement already satisfied: imutils in /usr/local/lib/python3.10/dist-packages (0.5.4)
```

```
!pip install pytesseract
```

```
Collecting pytesseract
  Downloading pytesseract-0.3.10-py3-none-any.whl (14 kB)
Requirement already satisfied: packaging>=21.3 in /usr/local/lib/python3.10/dist-packages (from pytesseract) (23.1)
Requirement already satisfied: Pillow>=8.0.0 in /usr/local/lib/python3.10/dist-packages (from pytesseract) (9.4.0)
Installing collected packages: pytesseract
Successfully installed pytesseract-0.3.10
```

```
import cv2
import imutils
import pytesseract
import numpy as np
```

```
from google.colab.patches import cv2_imshow
```

```
image = cv2.imread('/content/Cars11.png')
resized_image = imutils.resize(image)
cv2_imshow(resized_image) # Display the image
```



```
gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2_imshow(gray_image)
cv2.waitKey(0)
```



-1

```
gray_image1 = cv2.bilateralFilter(gray_image, 11, 17, 17)
cv2_imshow(gray_image1)
cv2.waitKey(0)
```



```

edged = cv2.Canny(gray_image1, 30, 200)
cv2_imshow(edged)
cv2.waitKey(0)

```



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```

cnts,new = cv2.findContours(edged.copy(), cv2.RETR_LIST, cv2.CHAIN_APPROX_SIMPLE)
image1=image.copy()
cv2.drawContours(image1,cnts,-1,(0,255,0),3)
cv2_imshow(image1)
cv2.waitKey(0)

```



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```

cnts = sorted(cnts, key = cv2.contourArea, reverse = True) [:30]
screenCnt = None
image2 = image.copy()
cv2.drawContours(image2,cnts,-1,(0,255,0),3)
cv2_imshow(image2)
cv2.waitKey(0)

```



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```
i=7
for c in cnts:
    perimeter = cv2.arcLength(c, True)
    approx = cv2.approxPolyDP(c, 0.018 * perimeter, True)
    if len(approx) == 4:
        screenCnt = approx
        x,y,w,h = cv2.boundingRect(c)
        new_img=image[y:y+h,x:x+w]
        cv2.imwrite('./'+str(i)+'.png',new_img)
        i+=1
        break

cv2.drawContours(image, [screenCnt], -1, (0, 255, 0), 3)
cv2.imshow(image)
cv2.waitKey(0)
cv2.destroyAllWindows()
```



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