

```
import cv2
from google.colab.patches import cv2_imshow
from google.colab import files
import numpy as np

uploaded = files.upload()

image_path = next(iter(uploaded))
image = cv2.imdecode(np.frombuffer(uploaded[image_path], np.uint8), cv2.IMREAD_COLOR)

print("Original Image:")
cv2_imshow(image)

(h, w) = image.shape[:2]
center = (w // 2, h // 2)

matrix_clockwise = cv2.getRotationMatrix2D(center, -90, 1.0)
rotated_clockwise = cv2.warpAffine(image, matrix_clockwise, (w, h))

matrix_counter = cv2.getRotationMatrix2D(center, 90, 1.0)
rotated_counter = cv2.warpAffine(image, matrix_counter, (w, h))

print("Rotated 90 Degrees Clockwise:")
cv2_imshow(rotated_clockwise)

print("Rotated 90 Degrees Counter-Clockwise:")
cv2_imshow(rotated_counter)
```



to enable.  
Saving i7.jpg to i7.jpg  
Original Image:



Rotated 90 Degrees Clockwise:

