```
10 question
import cv2
# Step 1: Read the image
image_path = r"C:\Users\SAIL\Downloads\CV\watch.jpg" # Replace with your image path
image = cv2.imread(image_path)
# Check if the image is loaded successfully
if image is None:
     print("Error: Could not load image.")
     exit()
# Step 2: Get the image dimensions
height, width = image.shape[:2]
# Step 3: Define the rotation matrix to perform a 90-degree clockwise rotation
# Rotation matrix for 90 degrees clockwise is:
# (0, -1), (1, 0)
rotation_matrix = cv2.getRotationMatrix2D((width // 2, height // 2), -90, 1)
# Step 4: Apply the rotation to the image
rotated_image = cv2.warpAffine(image, rotation_matrix, (width, height))
# Step 5: Display the original and rotated images
cv2.imshow("Original Image", image)
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cv2.imshow("90-degree Rotated Image (Clockwise)", rotated_image)

Wait for a key press and close all windows

cv2.waitKey(0)

cv2.destroyAllWindows()

