```
#https://github.com/SSHAHZAIBS/ALL-DIP-LABS-
import cv2
image = cv2.imread('ccr.jpg')
rotated image = cv2.rotate(image, cv2.ROTATE 90 CLOCKWISE)
orb = cv2.0RB create()
keypoints, descriptors = orb.detectAndCompute(image, None)
rotated keypoints, rotated descriptors =
orb.detectAndCompute(rotated image, None)
image with keypoints = cv2.drawKeypoints(image, keypoints, None,
color=(0, 255, 0))
rotated image with keypoints = cv2.drawKeypoints(rotated image,
rotated_keypoints, None, color=(0, 255, 0))
cv2.imshow('Original Image with Keypoints', image with keypoints)
cv2.imshow('Rotated Image with Keypoints',
rotated image with keypoints)
cv2.waitKey(0)
cv2.destroyAllWindows()
import cv2
import matplotlib.pyplot as plt
image path = 'test22.png'
image = cv2.imread(image path, cv2.IMREAD GRAYSCALE)
# Initialize ORB detector
orb = cv2.0RB_create()
keypoints, descriptors = orb.detectAndCompute(image, None)
keypoints image = cv2.drawKeypoints(image, keypoints, None, color=(0,
255, 0))
plt.figure(figsize=(10, 6))
plt.imshow(keypoints image, cmap='gray')
plt.title('ORB Keypoints')
plt.show()
```

