PROGRAM – 9

AIM:

To do a python program to rotate an image in various degrees

ALGORITHM:

1. **Import module:** Import cv2 (OpenCV library).

2. **Define function:** Create a function show\_rotated\_right(img\_path, angle).

3. **Read image:** Load the image using cv2.imread().

4. **Get dimensions:** Extract height (h) and width (w) from the image shape.

5. **Create rotation matrix:** Use cv2.getRotationMatrix2D() with center as (w/2, h/2), angle as -angle, and scale as 1.

6. **Apply rotation:** Rotate the image using cv2.warpAffine() with the rotation matrix.

7. **Display image:** Show the rotated image using cv2.imshow().

8. **Wait and close:** Wait for key press using cv2.waitKey(0) and close windows using cv2.destroyAllWindows().

OUTPUT:

