PROGRAM – 5

AIM:

To do a python program to draw different shapes

ALGORITHM:

1. **Import modules:** Import cv2 and numpy as np.

2. **Create blank image:** Create a white image of size 500×500 pixels with 3 color channels using np.ones() and multiply by 255.

3. **Draw line:**Draw a red line from point (50, 50) to (450, 450) with thickness 5 using cv2.line().

4. **Draw circle:** Draw a green circle at center (250, 250) with radius 100 and thickness 3 using cv2.circle().

5. **Draw filled rectangle:** Draw a blue filled rectangle from (50, 400) to (450, 450) using cv2.rectangle() with thickness -1.

6. **Draw bordered rectangle:** Draw a yellow rectangle from (100, 100) to (400, 400) with thickness 5.

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

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

OUTPUT:

