CODE FOR IMAGE PROCESSING

import cv2

import numpy as np

# Load the image

image = cv2.imread('grid\_image.png')

# Convert the image to grayscale

gray = cv2.cvtColor(image, cv2.COLOR\_BGR2GRAY)

# Apply Gaussian blur to remove noise

blurred = cv2.GaussianBlur(gray, (5, 5), 0)

# Threshold the image to get binary image

\_, thresh = cv2.threshold(blurred, 200, 255, cv2.THRESH\_BINARY)

# Find contours to get grid lines

contours, \_ = cv2.findContours(thresh, cv2.RETR\_EXTERNAL, cv2.CHAIN\_APPROX\_SIMPLE)

# Draw the contours on the original image

cv2.drawContours(image, contours, -1, (0, 255, 0), 2)

# Display the result

cv2.imshow('Grid with Contours', image)

cv2.waitKey(0)

cv2.destroyAllWindows()