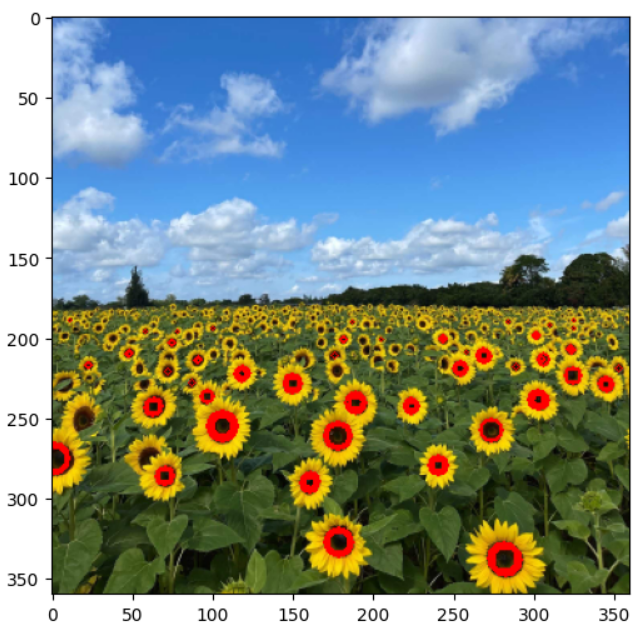
A black screen with colorful lines

Description automatically generated with medium confidenceQ1)

The parameters of the largest circle are:   
(207, 323)  
sigma value correspond to the maximum response : 2  
radius : 2

A black background with colorful lines

Description automatically generated  
Q2) (a)Line Fitting using RANSAC

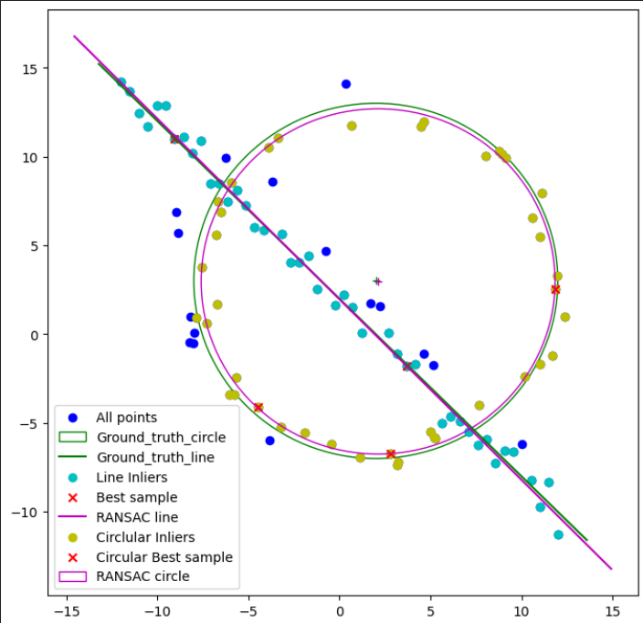
A black screen with colorful dots

Description automatically generated

A black screen with many colorful lines

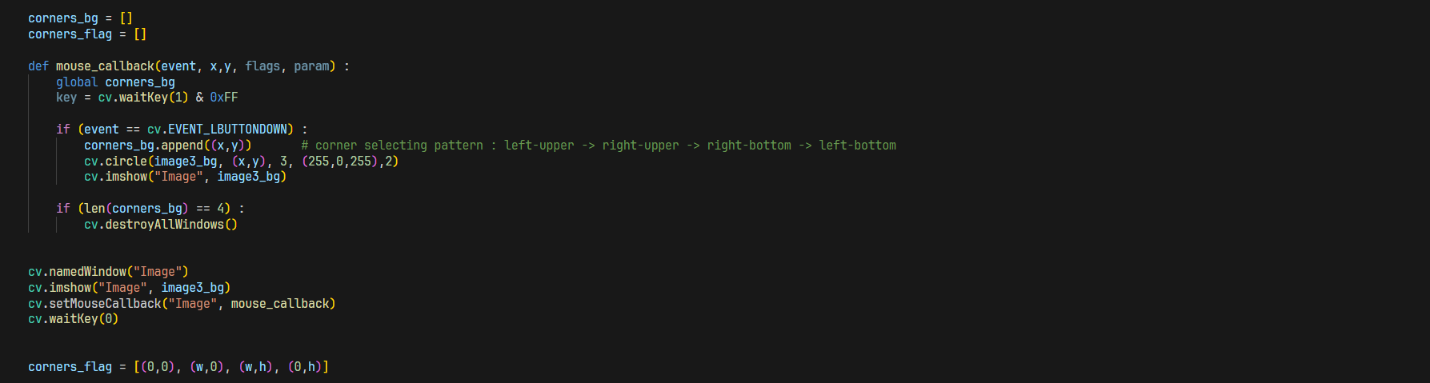
Description automatically generated with medium confidenceA black background with white dots

Description automatically generated(b)Circle Fitting using RANSAC  
  
  
(c) Plotting Line and Circle



d) When circle is first modeling using RANSAC, It can be taken the line inlier points as inliers to the circle and can predict a circular model which has a large radius. Then when the line model is predicting, due to the lack of inliers points, line prediction could be inaccurate. Therefore it is better to prioritize the dominance model when fitting.

A black background with white text

Description automatically generatedA flag on a black background

Description automatically generatedQ3)

Q4)

A collage of a painting

Description automatically generated  
A black screen with a black background

Description automatically generated

Github link : https://github.com/SadeepRathnayaka/EN3160-Image-Processing-and-Machine-Vision/tree/main/Assignment%202