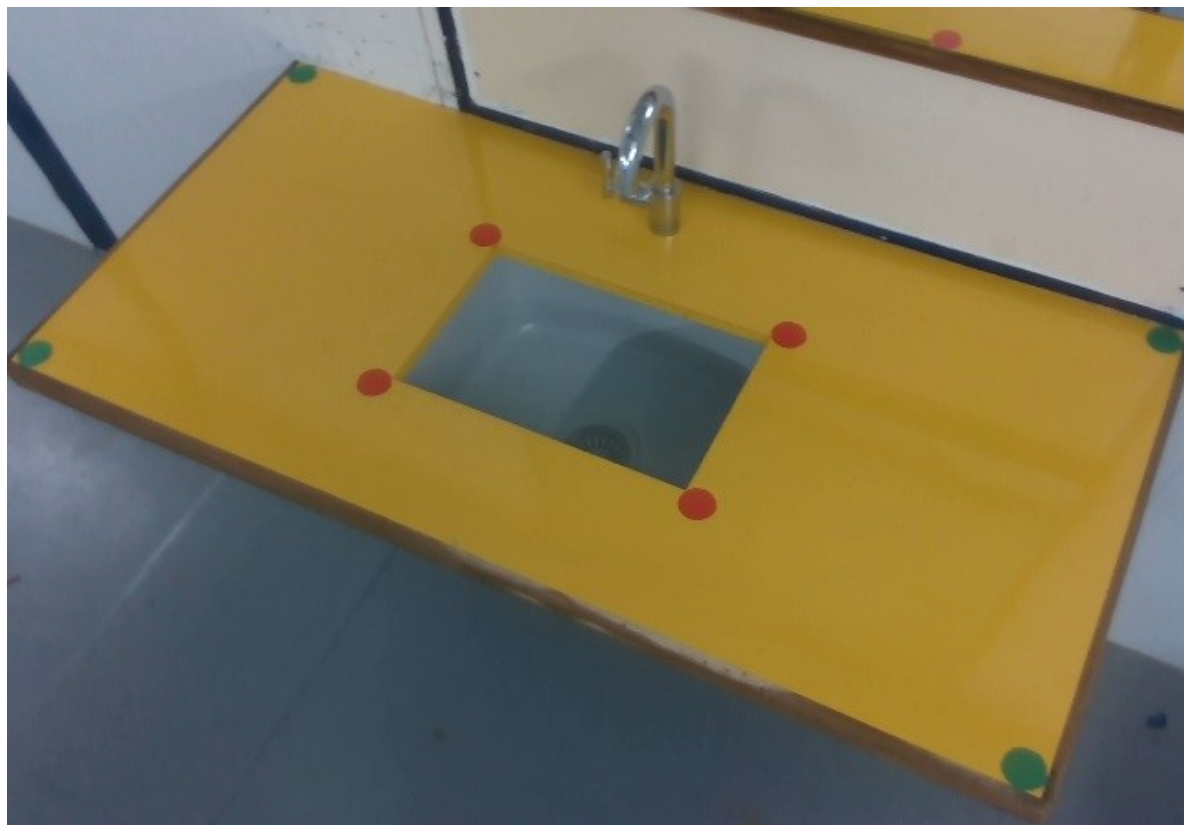


TASK : Segmenting the 4 markers placed at the corners of the countertop

The image of the countertop after placing the markers is as shown below

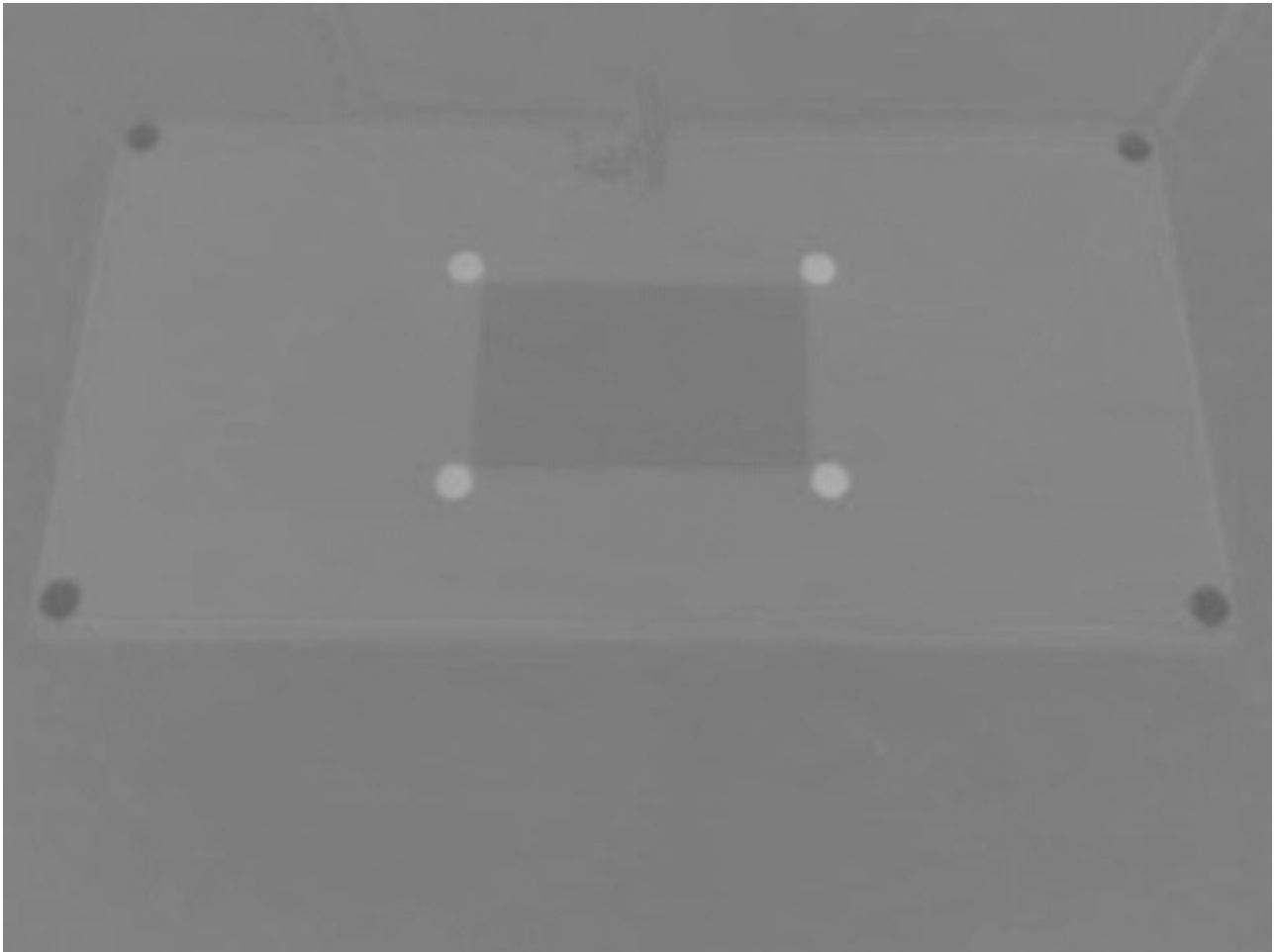


Inner rectangle (sink region) - Red colour markers

Outer rectangle (countertop region) - Green colour markers

To segment the markers based on colour I have used simple thresholding in the LAB colour space for inner and outer markers .

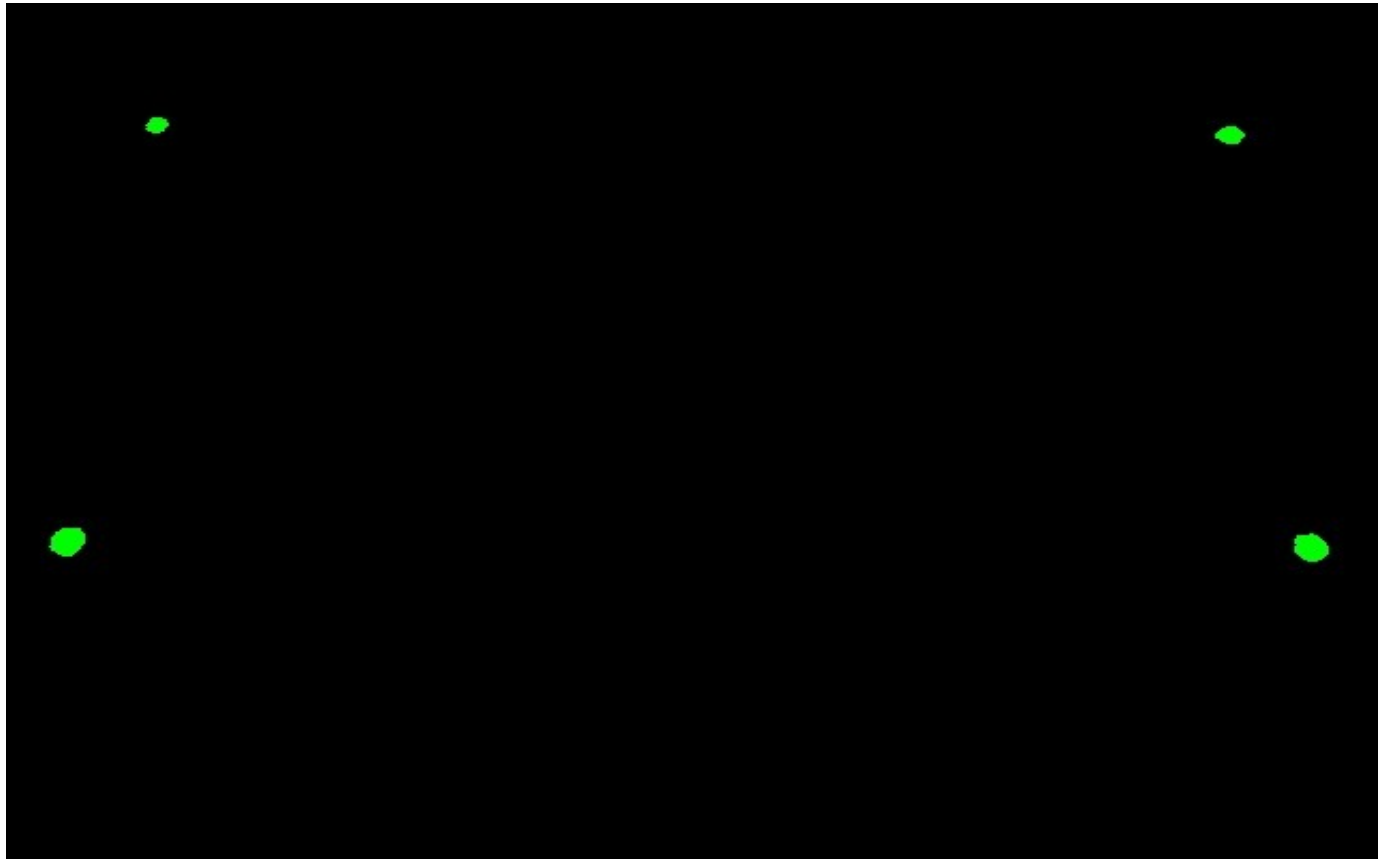
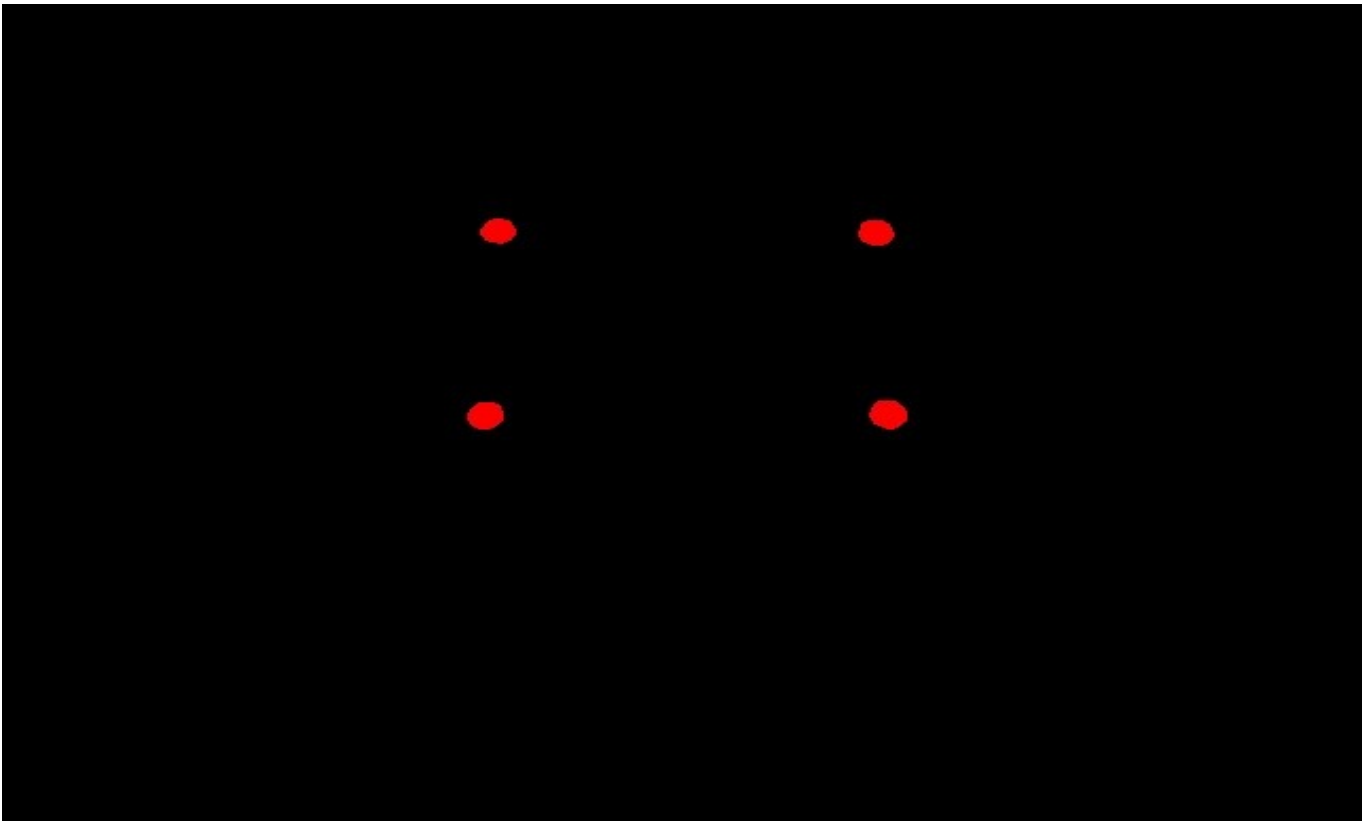
For the markers : In the LAB color space the A channel is shown as below



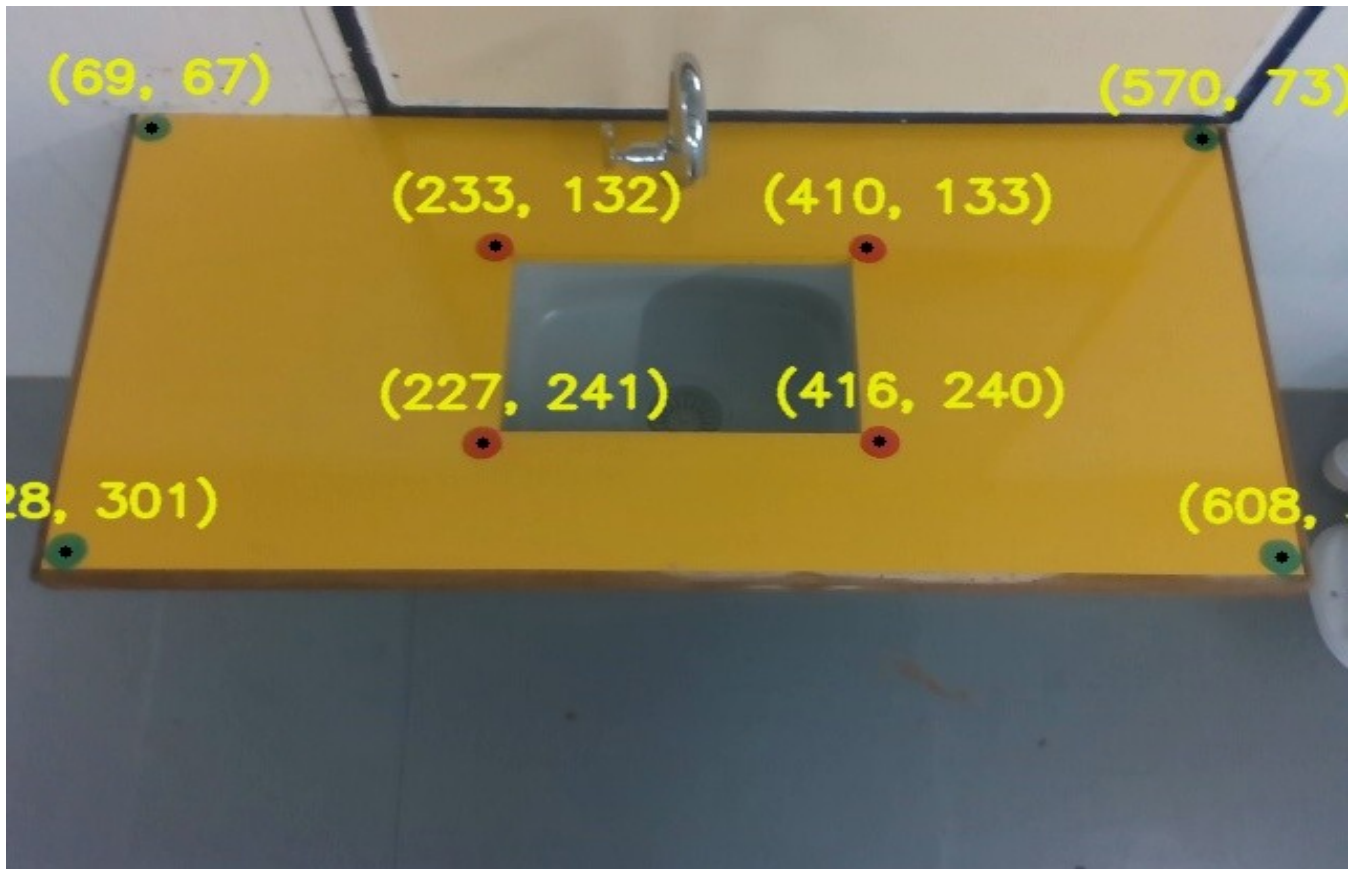
The Range for Red markers (inner markers) = (155 – 185)

The Range for green markers (outer markers) = (100 – 110)

The segmentation is as shown below



The centroid of the contours is found and the result is as shown below.



Using the points I have drawn an enclosing rectangle for it. It is as shown below

