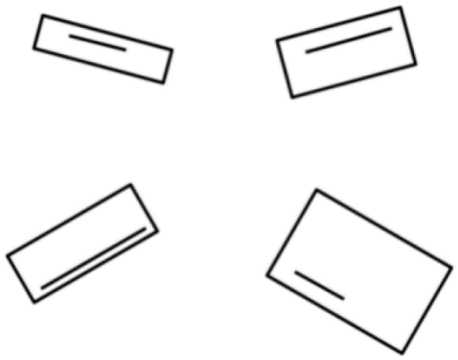
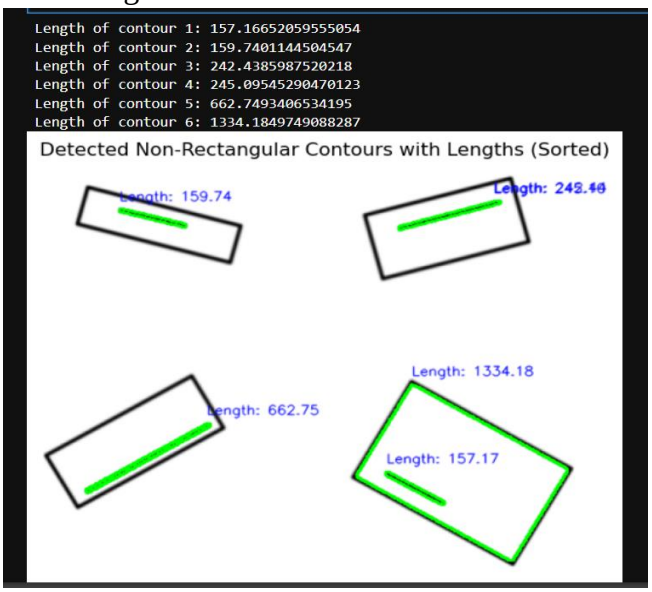
Task 2: Task Description:

From the given image below complete the following given task:

#Task 1: Assign the number (1 to 4) below the image of the rectangle with respect to its length
inside the rectangle. The shorter the line lower the number (No need to reorder the image of the
rectangle, only give numbering)



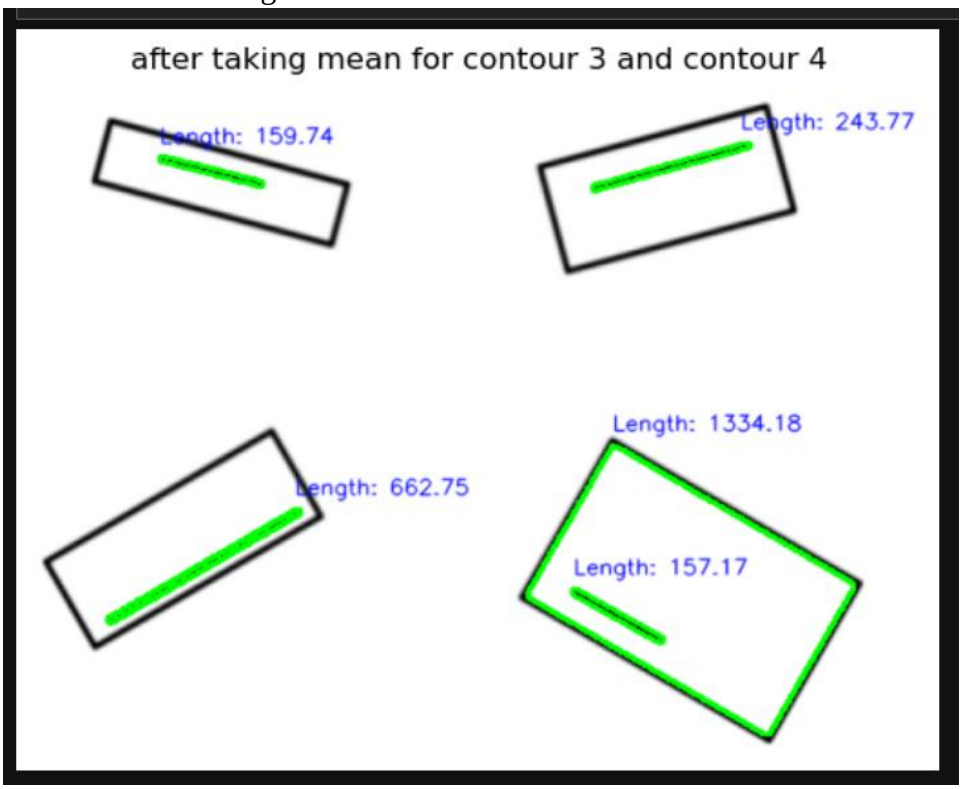
Approaches for solving:

1. For this initially, I implemented edge detection using canny detector and also contours were detected.
2. I tried to filter out the contours that form rectangular shapes. As we don't need them. Our only concern is the line(contour) inside the rectangles.
3. Length of all the non-rectangular contours were taken in sorted in non-decreasing order.
4. 

5. Although, Rectangular contours were eliminated it still showed one of the largest rectangular contour as non-rectangular contour.

6. Also, Contour 3 and contour 4 are the same contours with very much less difference in length. So they can be merged as a single contour with average between their lengths

7. Contour 6 can be neglected.



Now the shortest 4 lengths can be taken in increasing order and can be labelled from 1 to 4 where 1 being the shortest.