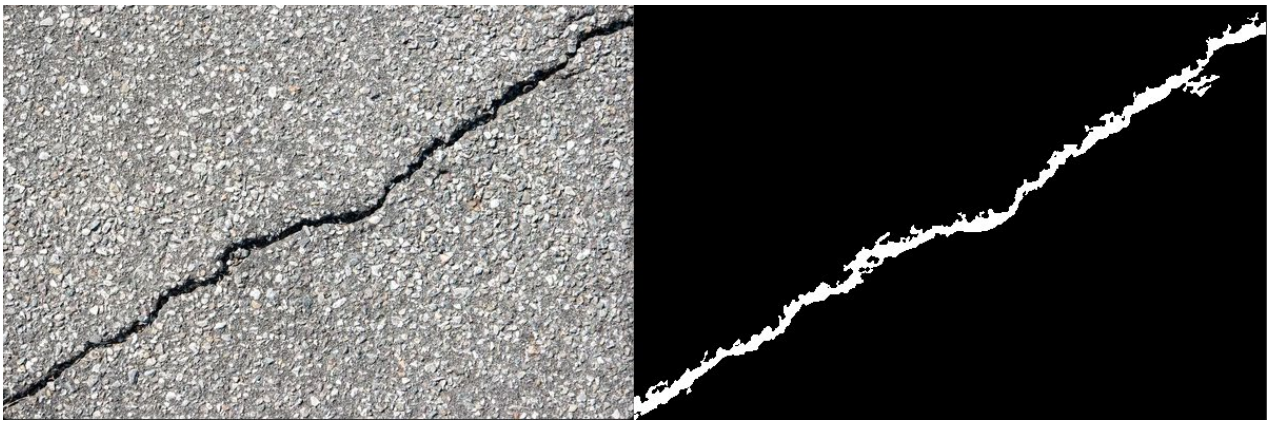
Lab report 5: 2024/04/17

- In these three tasks, I used all the knowledge I acquired in the previous labs to segment different areas of the image.
- with a general approach and in a sequence of functions I succeeded to mask the required area in all tasks accurately.
- First, I used a gaussian blur with kernel size of (5,5)
- Then masked the image with a color threshold, different color threshold for each task.
- On the output image of the color mask, I used a OpenCV function named ConnectedComponentsWithStats(), with this function I was able to detect the areas connected to each other with less pixels than a certain threshold to remove them from mask in order to remove noise, and also detect areas connected to each other with more pixels than a certain threshold to add them to the mask in order to fill the gaps.



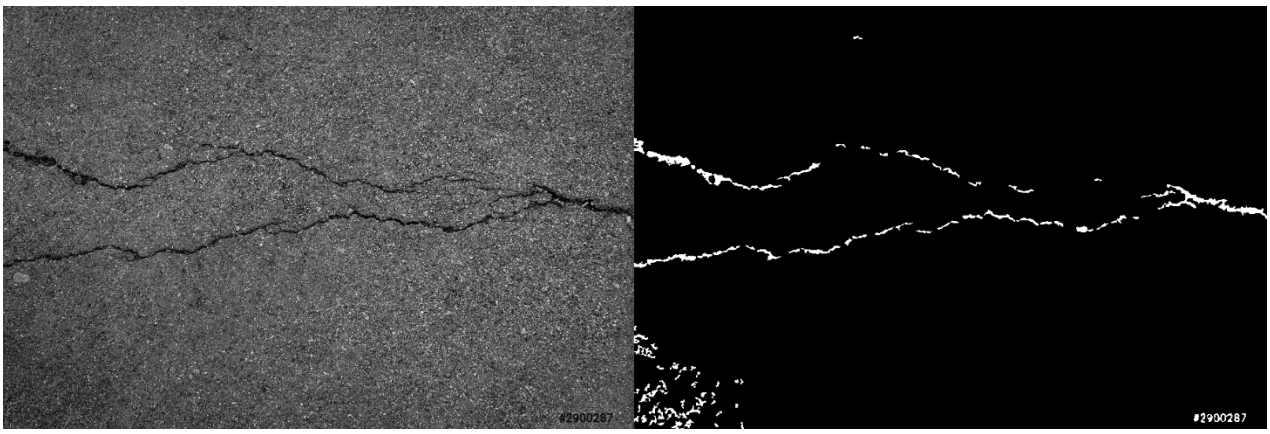



image
result