

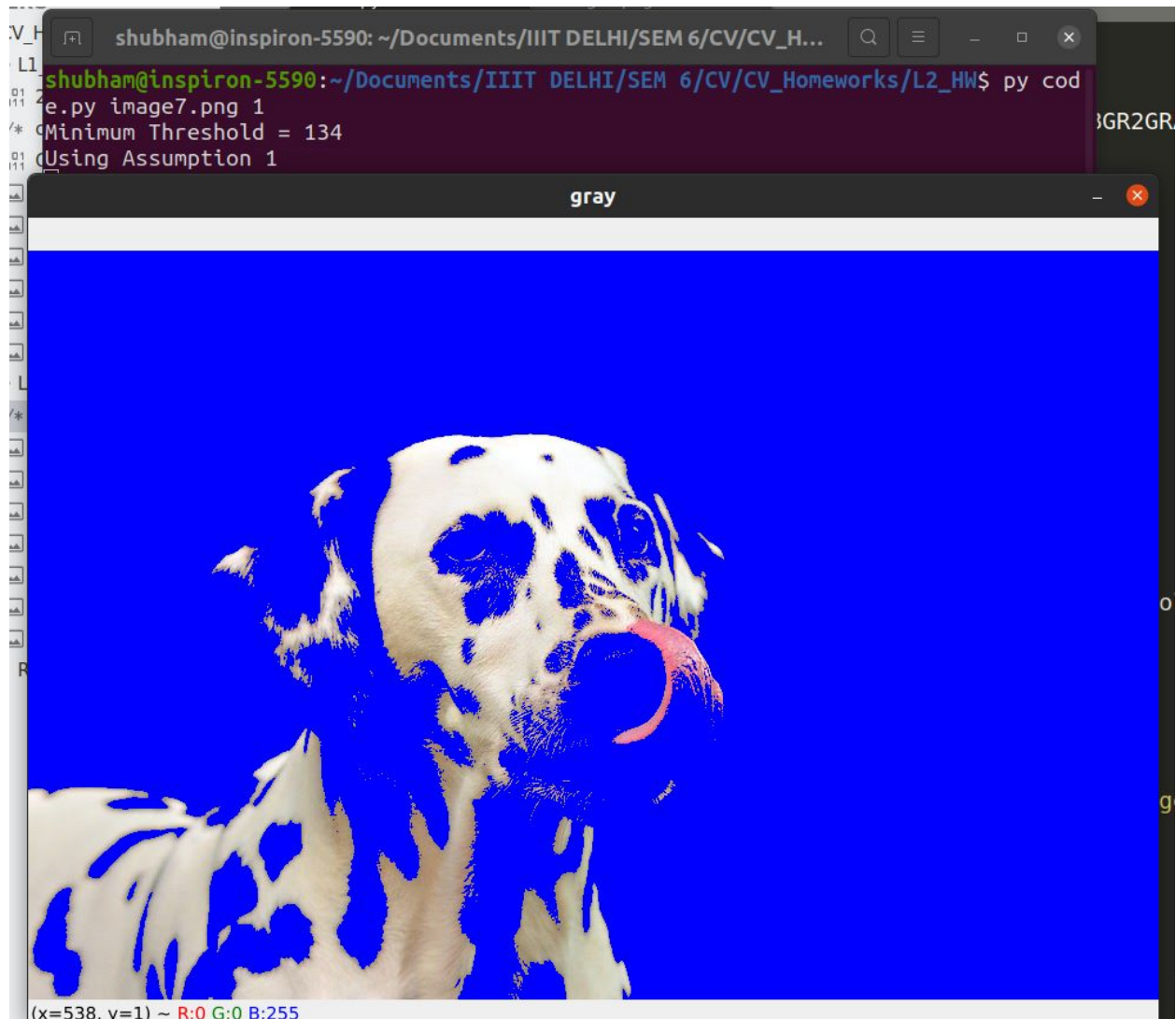
HW-2

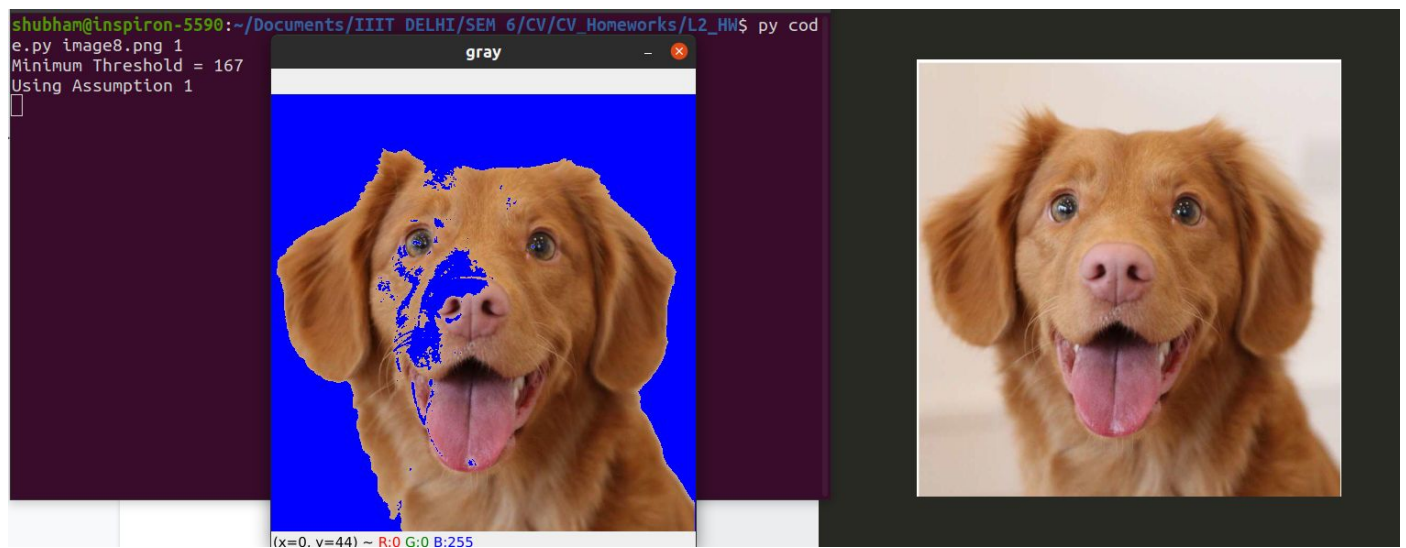
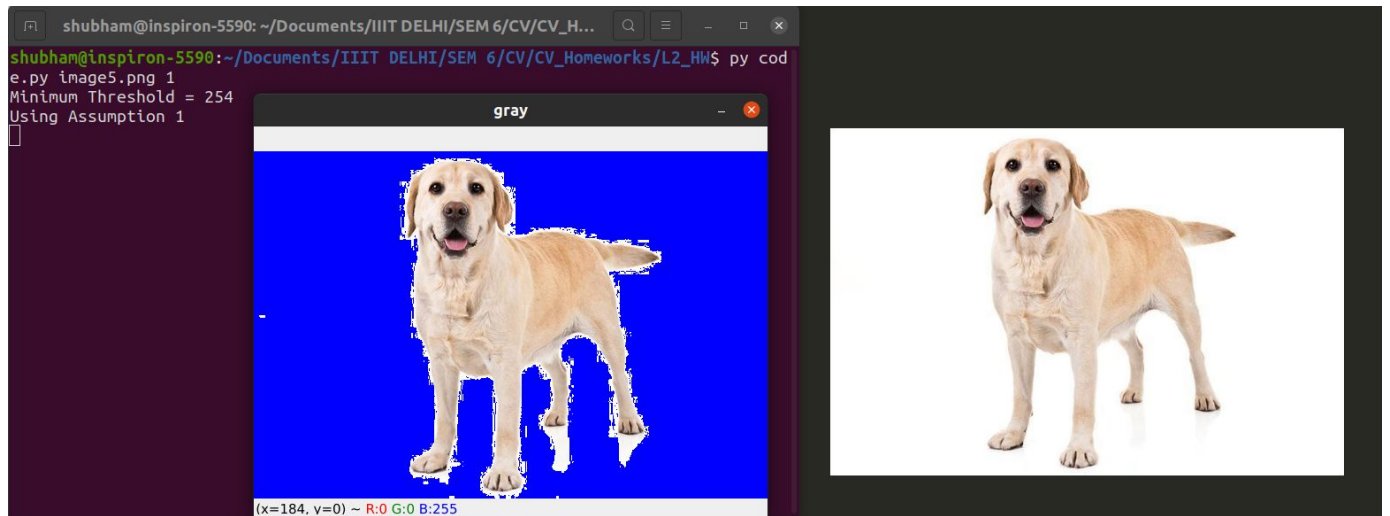
Command to run: **python3 code.py image1.png 1**

- Let **min_threshold** denotes threshold after applying Otsu's algorithm.

Assumption-1: Object will be present at the center of the image.

- I considered the rectangle whose **length** and **width** are $\frac{1}{2}$ of original image dimensions and its center coincides with that of the given image's center.
- Then found the median of the pixels which are present in that rectangle. Let it is denoted by the **median_pixel**.
- If **median_pixel** lies to the left of the **min_threshold** then the left side is foreground otherwise the right side is foreground.





Assumption-2: Boundary pixels are likely to be the background.

- I considered the border around the given image which is **10%** of the length and breadth.
- Then found the median of the pixels which are present in that border. Let it is denoted by the **median_pixel**.
- If **median_pixel** lies to the left of the **min_threshold** then the left side is background otherwise the right side is the background.

