

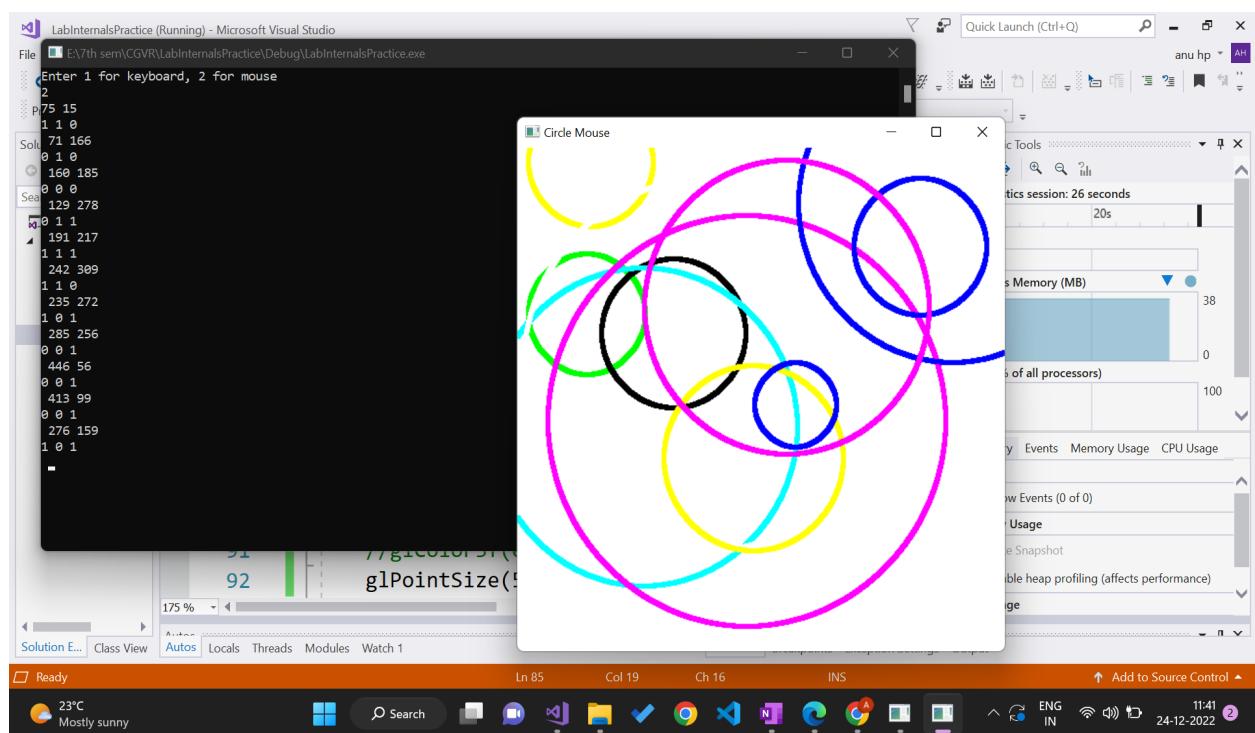
Outputs



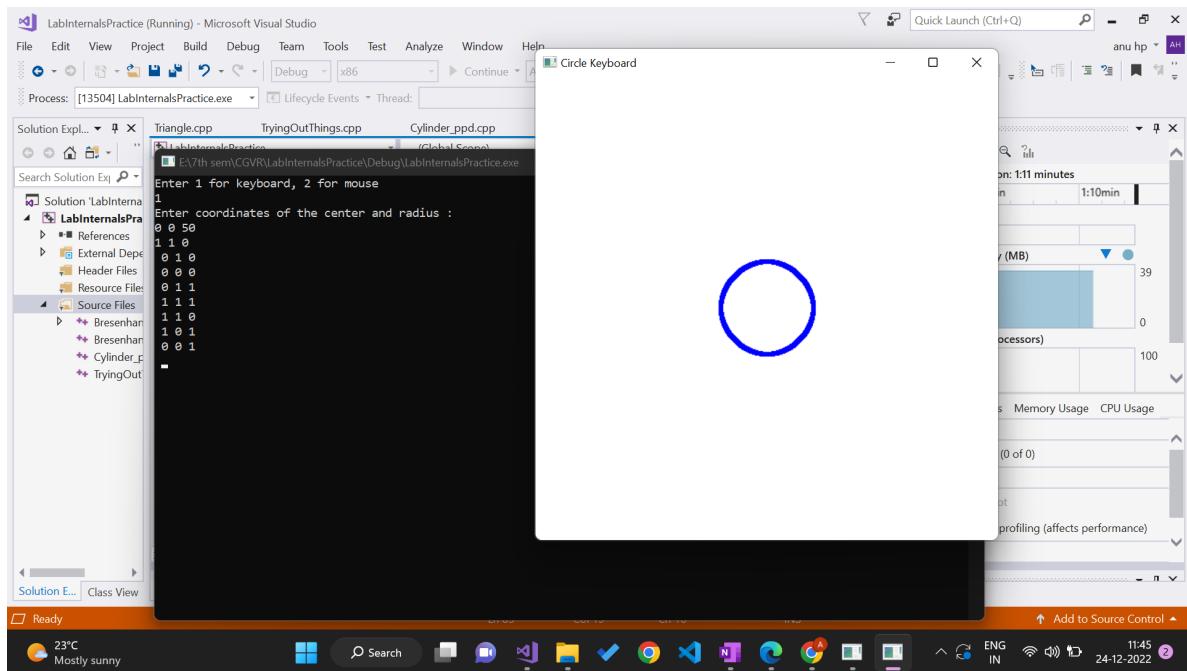
1. Bresenham Circle Drawing

1. Mouse inputs

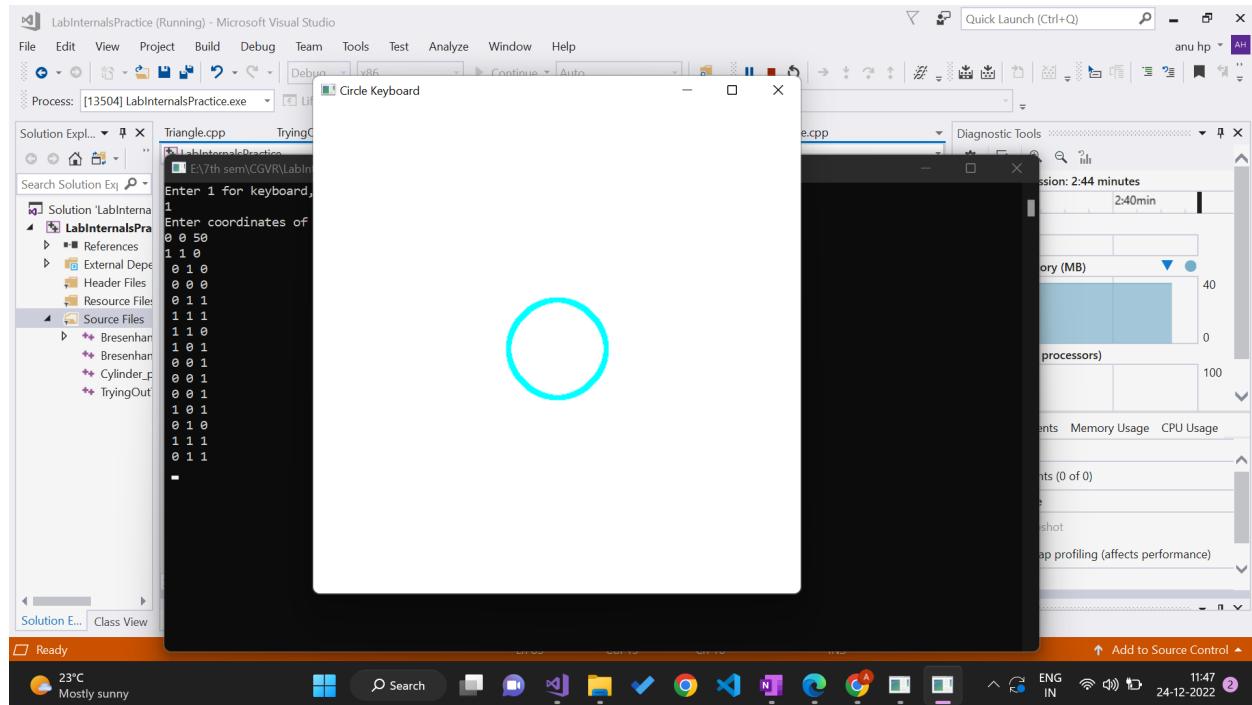
First click - for center of the circle , second - for radius



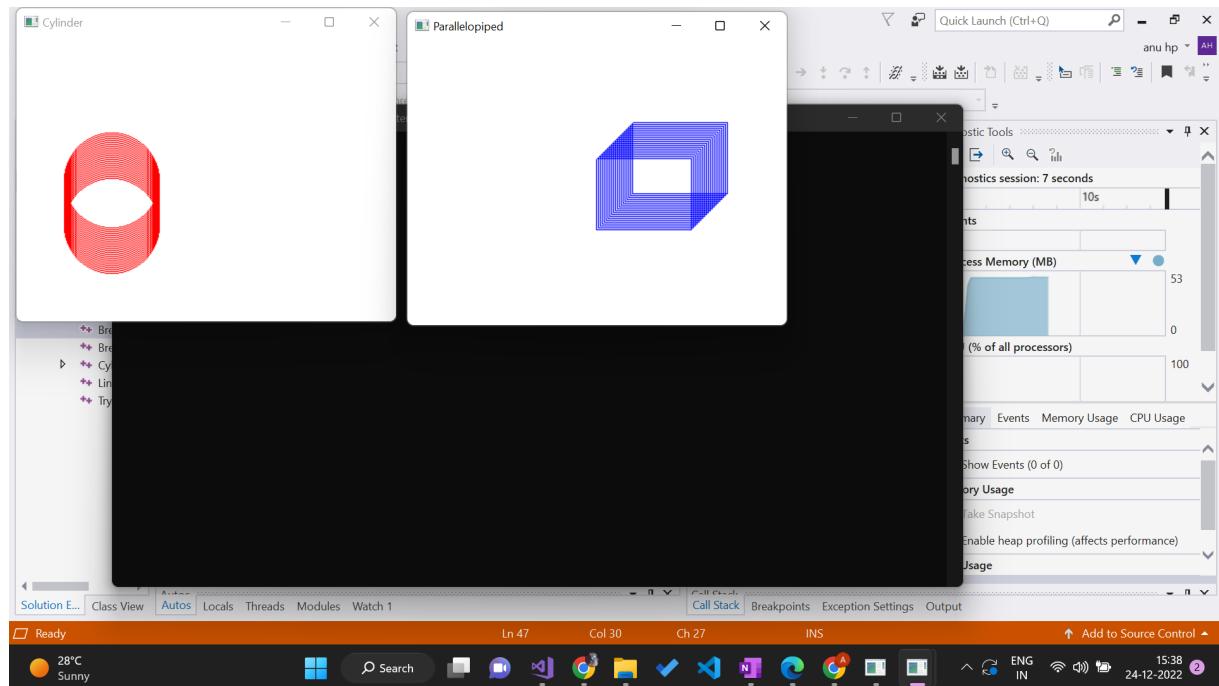
2. Keyboard inputs



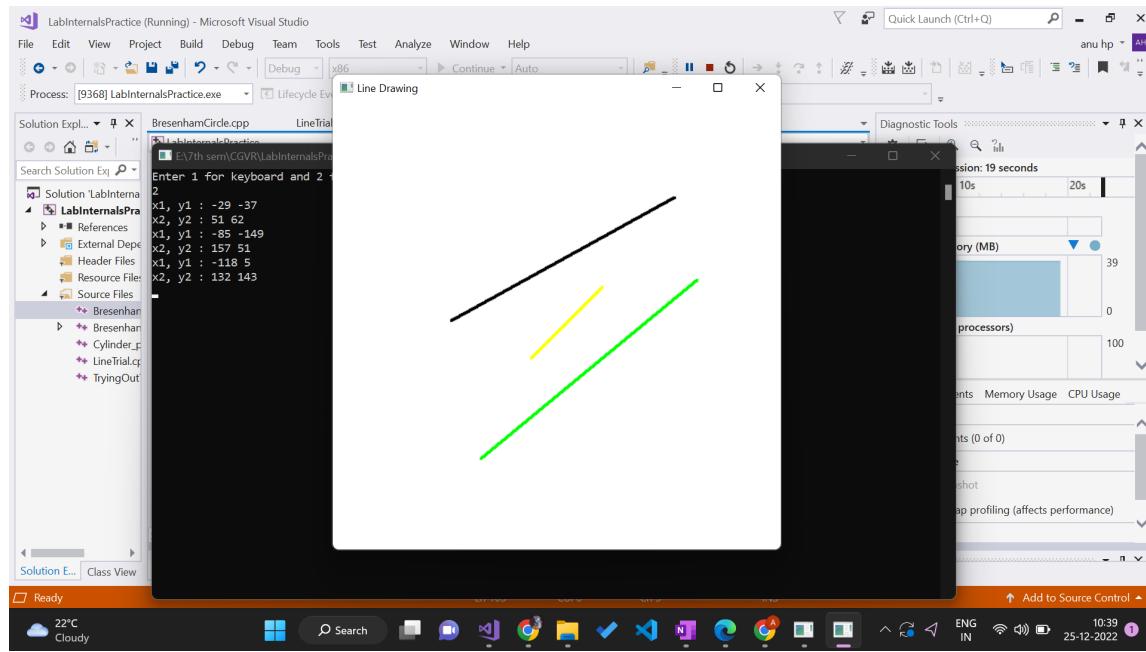
I really don't know what is happening, as I kept moving this output window, color kept changing



2. Cylinder Parallelepiped



3. Bresenham Line Drawing



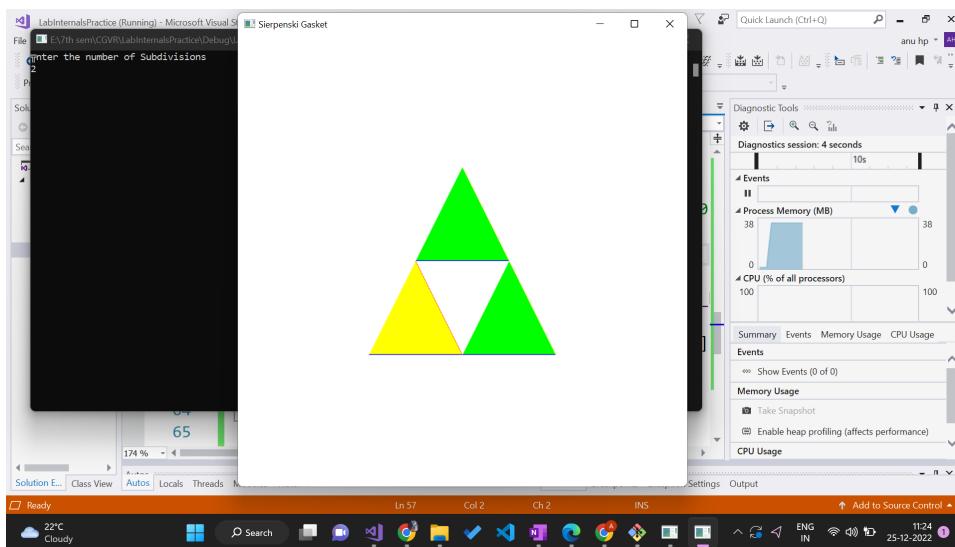
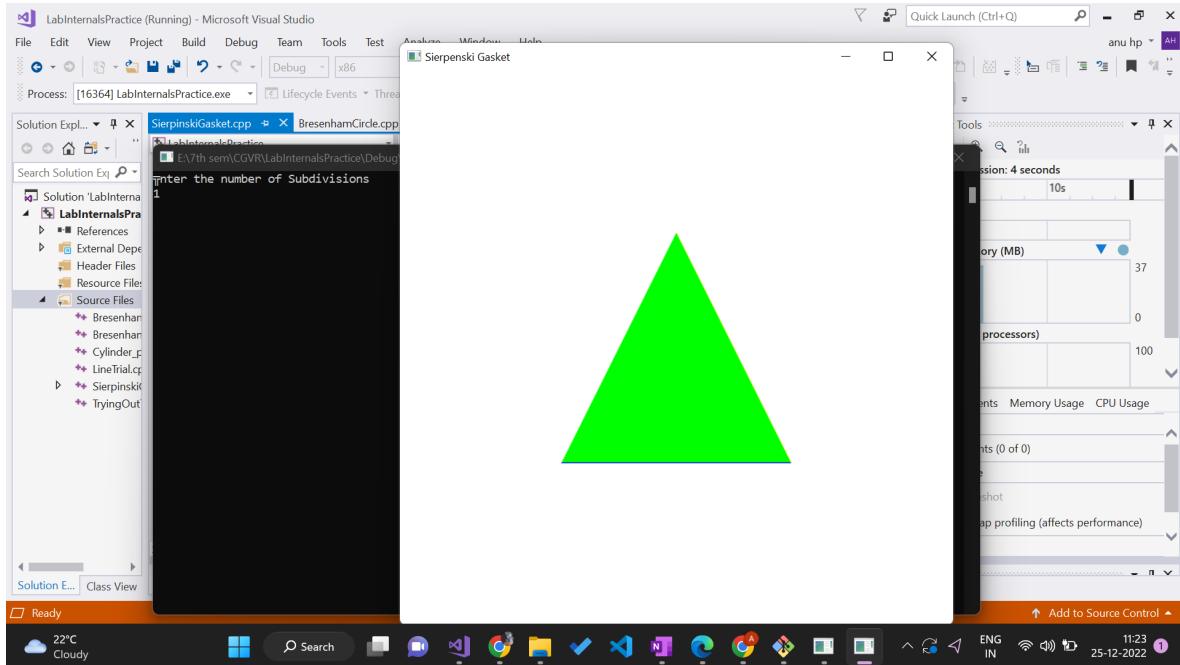
This LINE program is acting like one mad idiot, though I give slant line inputs, it displays horizontal lines and things like that. Sometimes, it won't show any lines at all.

Rebuild and run.

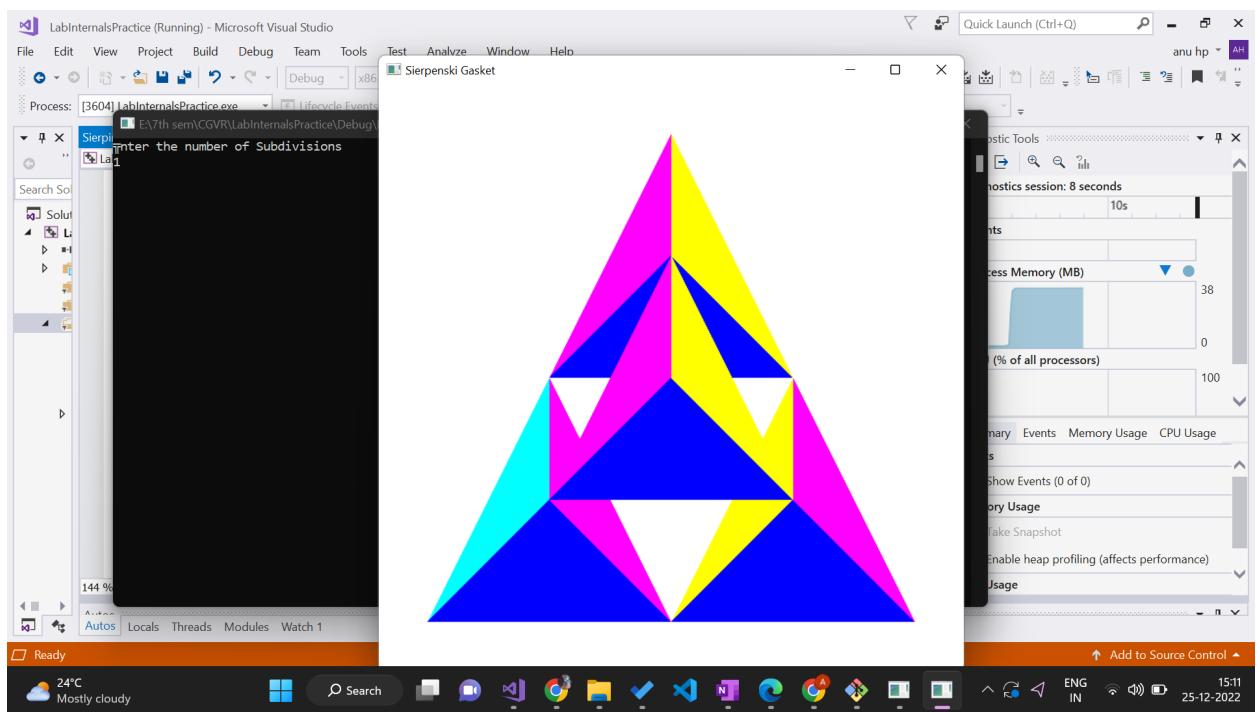
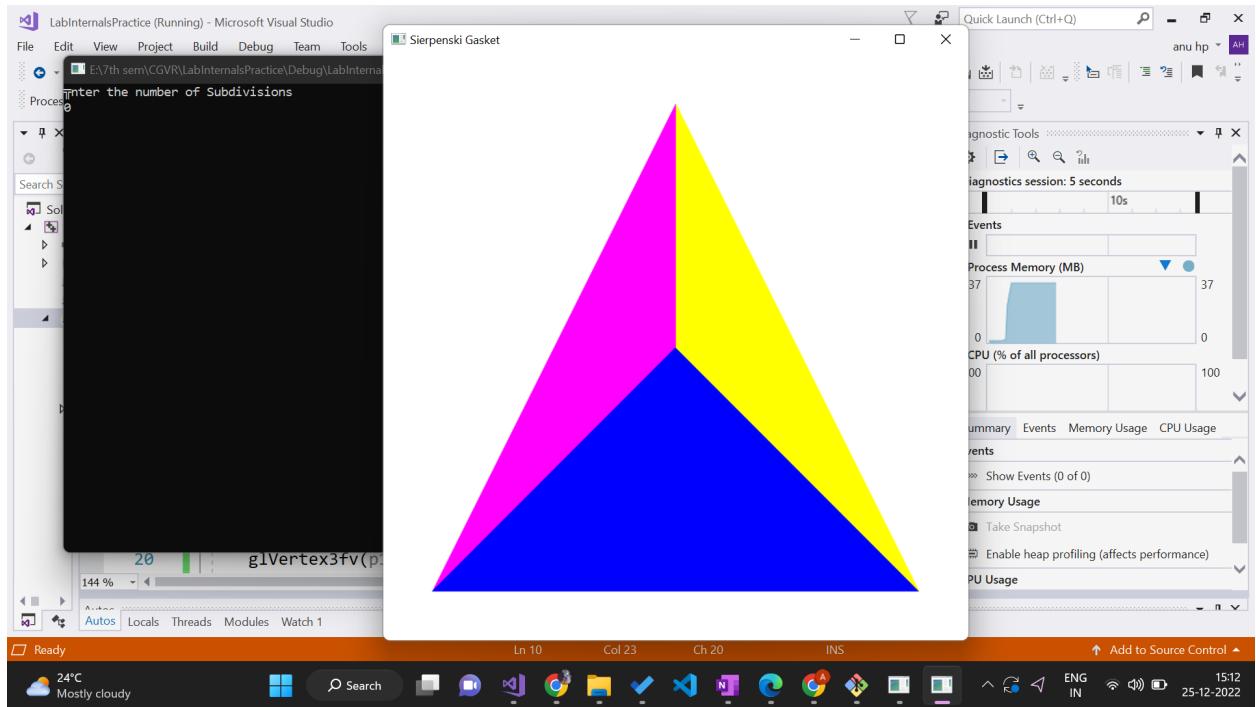
If you could find the error , please create a pull request 😊

4. Sierpinski Gasket

a. Surface subdivision



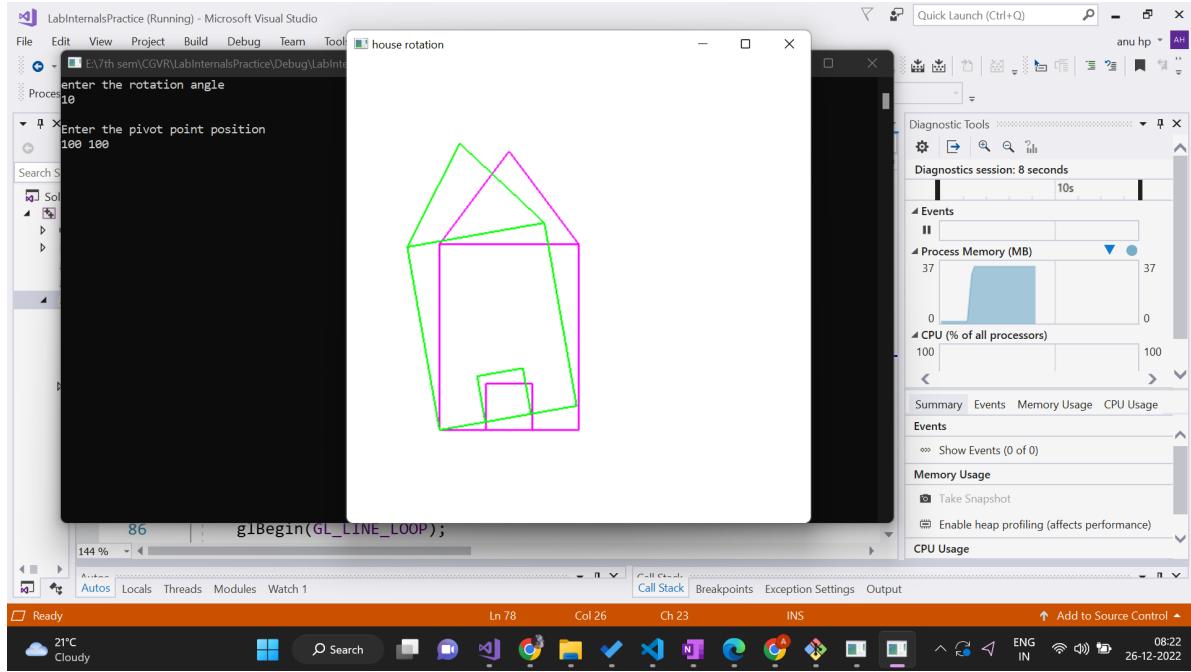
b. Volume subdivision



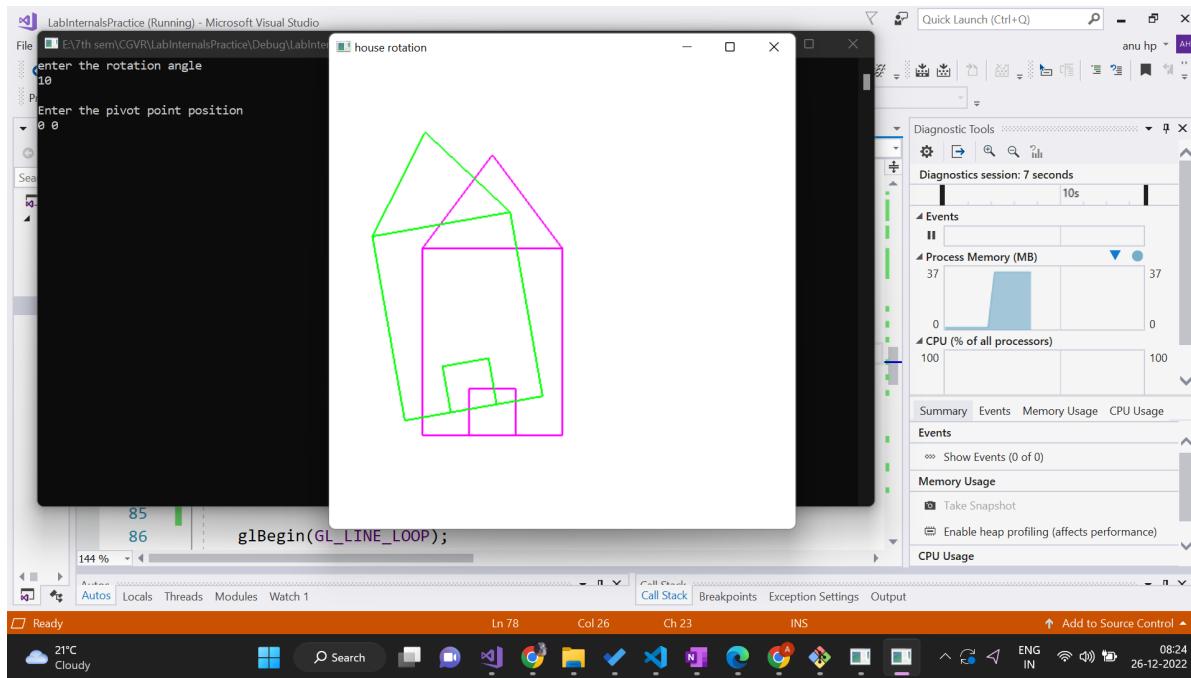
5. House Reflect and Rotate

a. Rotate

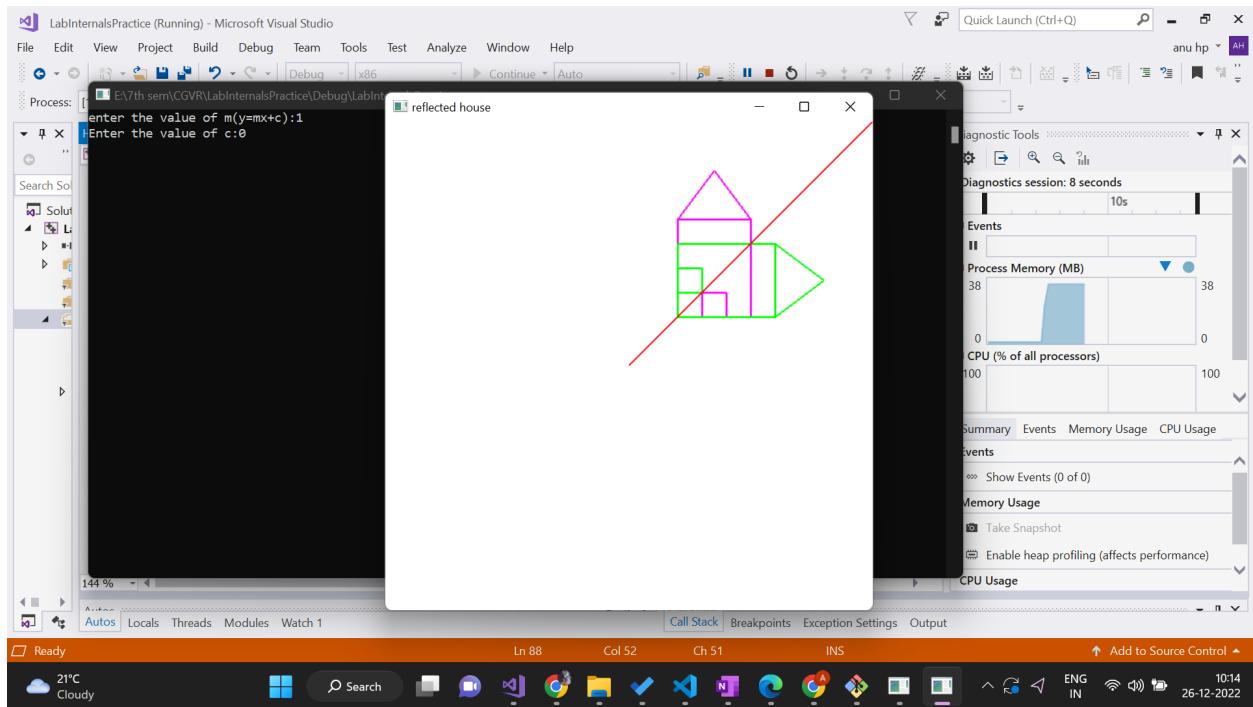
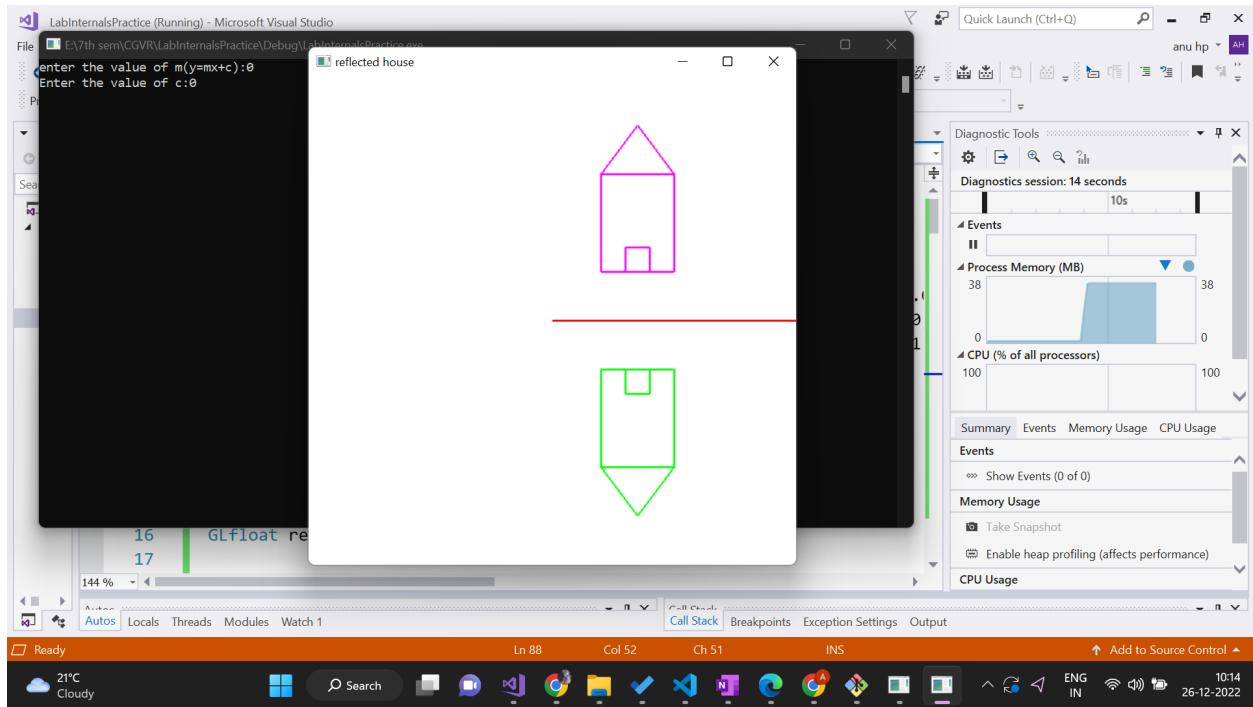
About the left corner point - so new house is not shifted from that point; makes sense



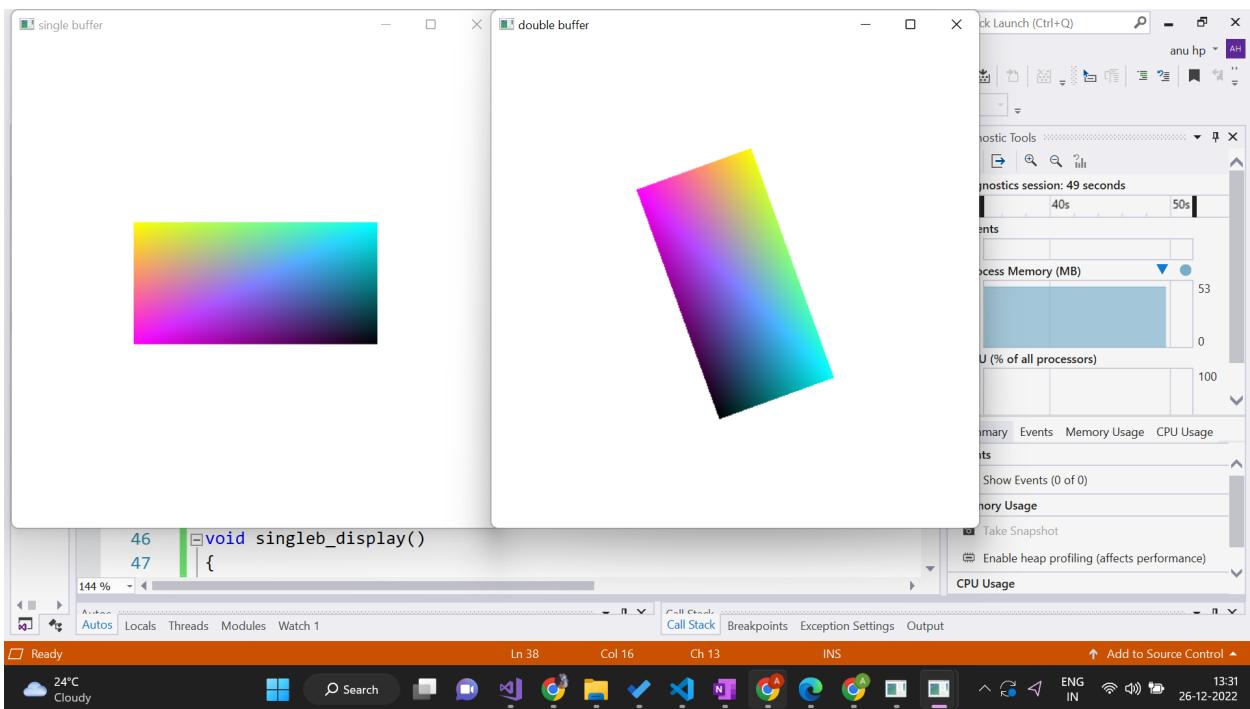
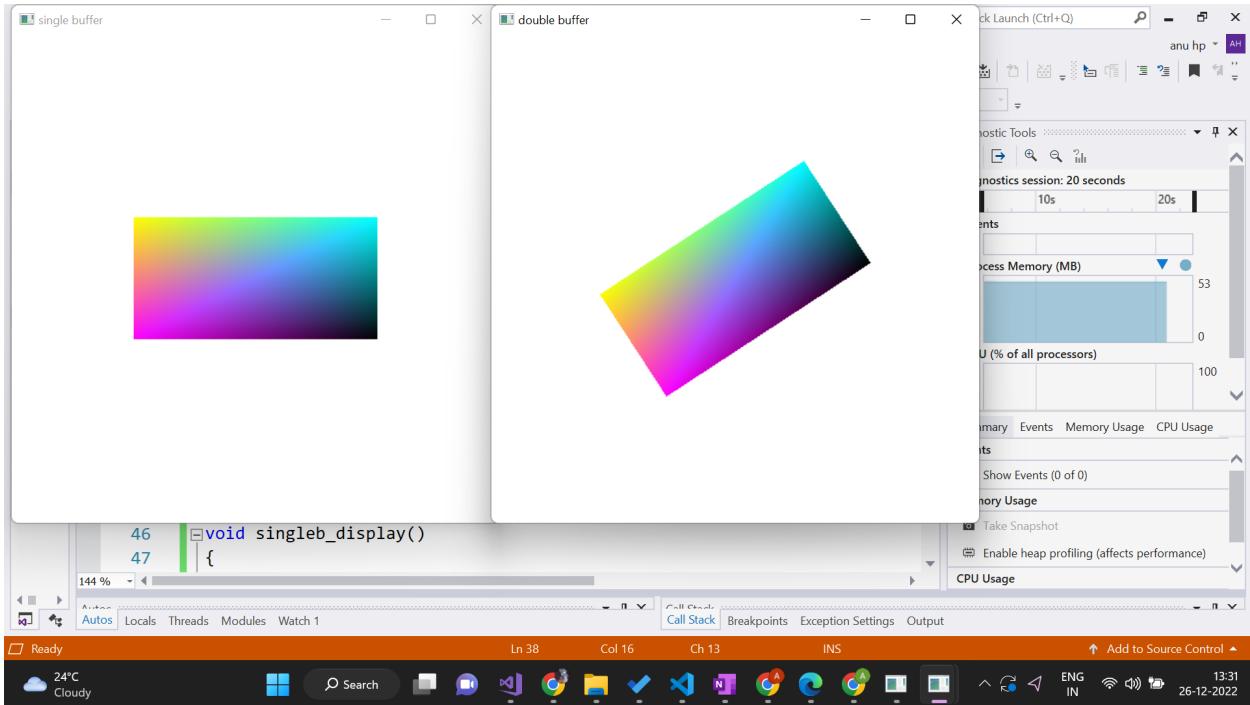
About origin



b. Reflect



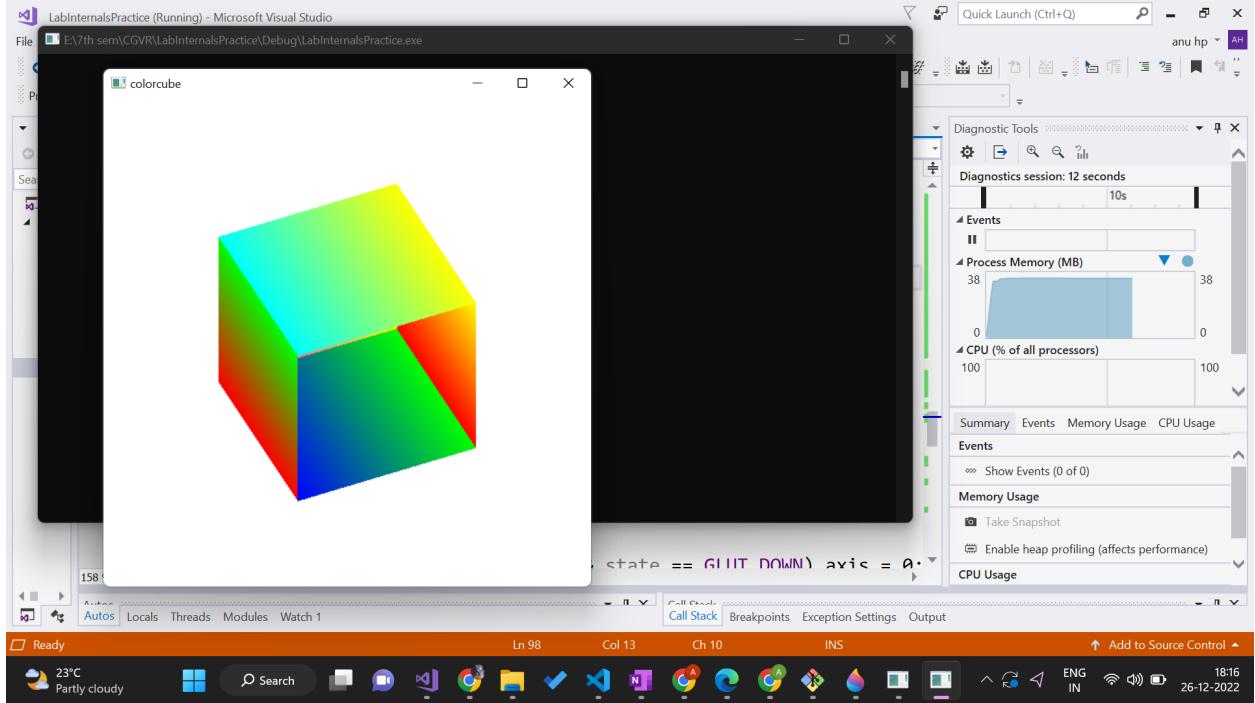
6. Rectangle spin



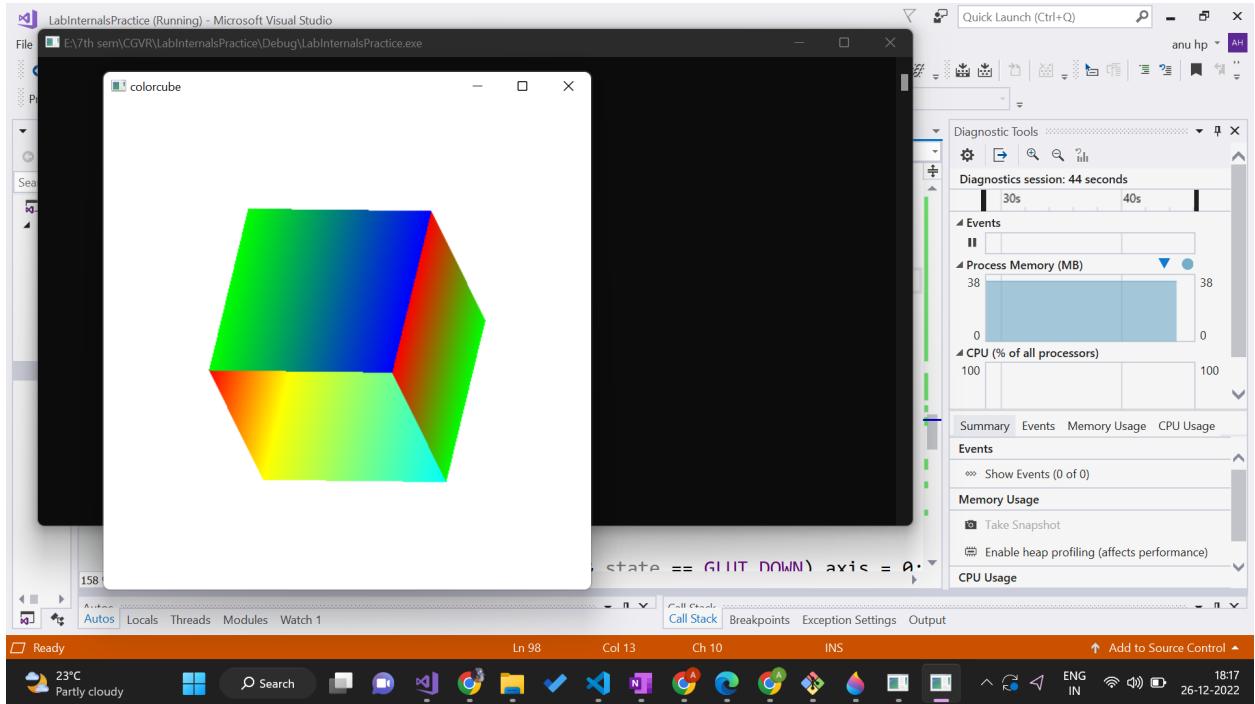
7. Cube spin

- Needs improvement

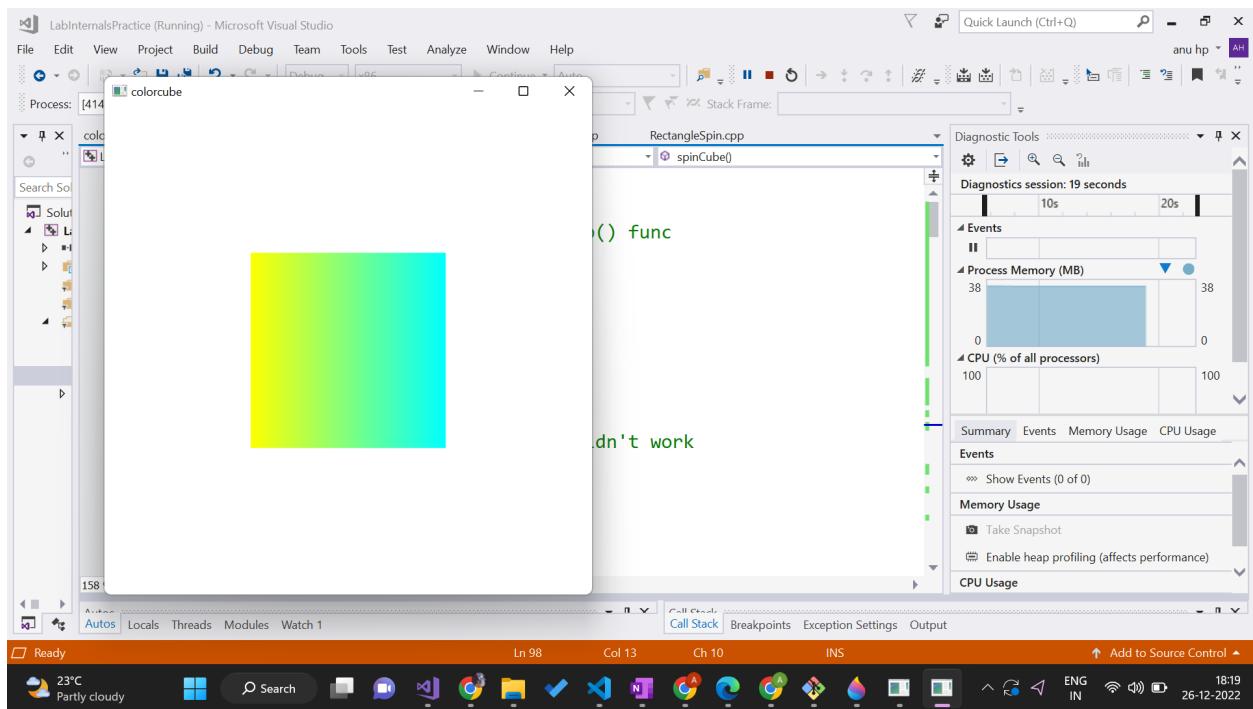
About z axis



About y axis

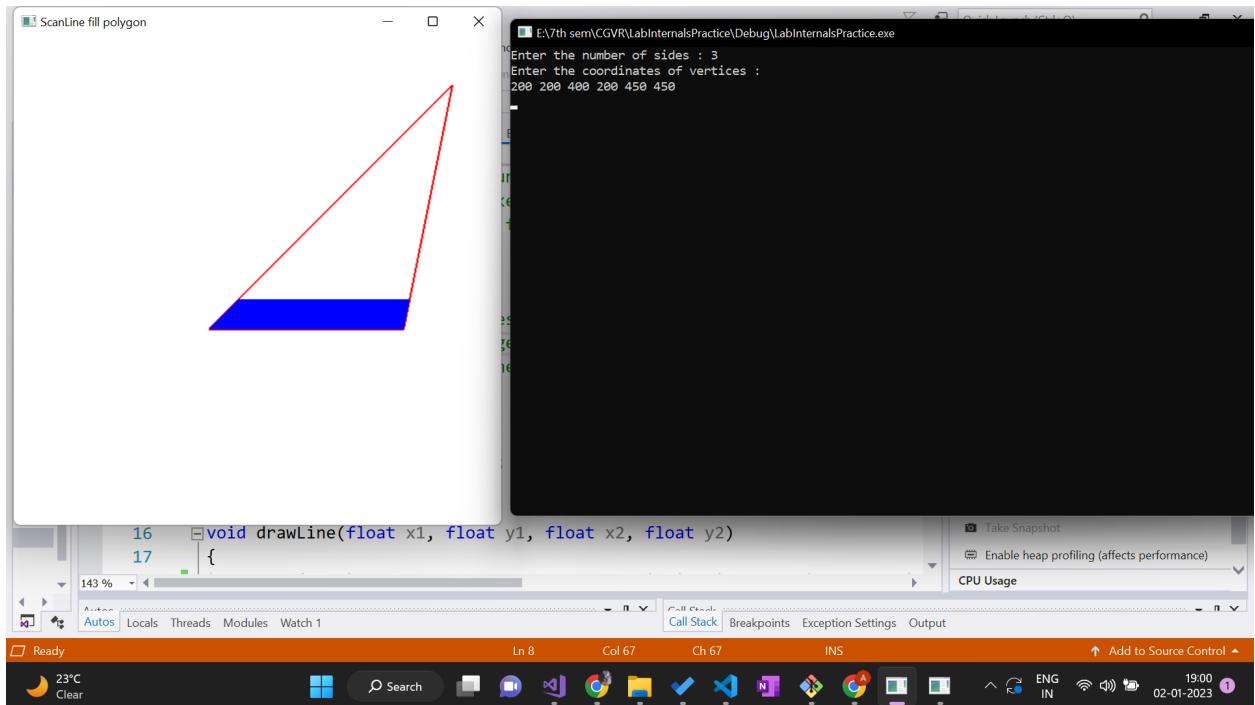


About x axis



Better take rubik's cube and visualize

8. Scan line Area Filling



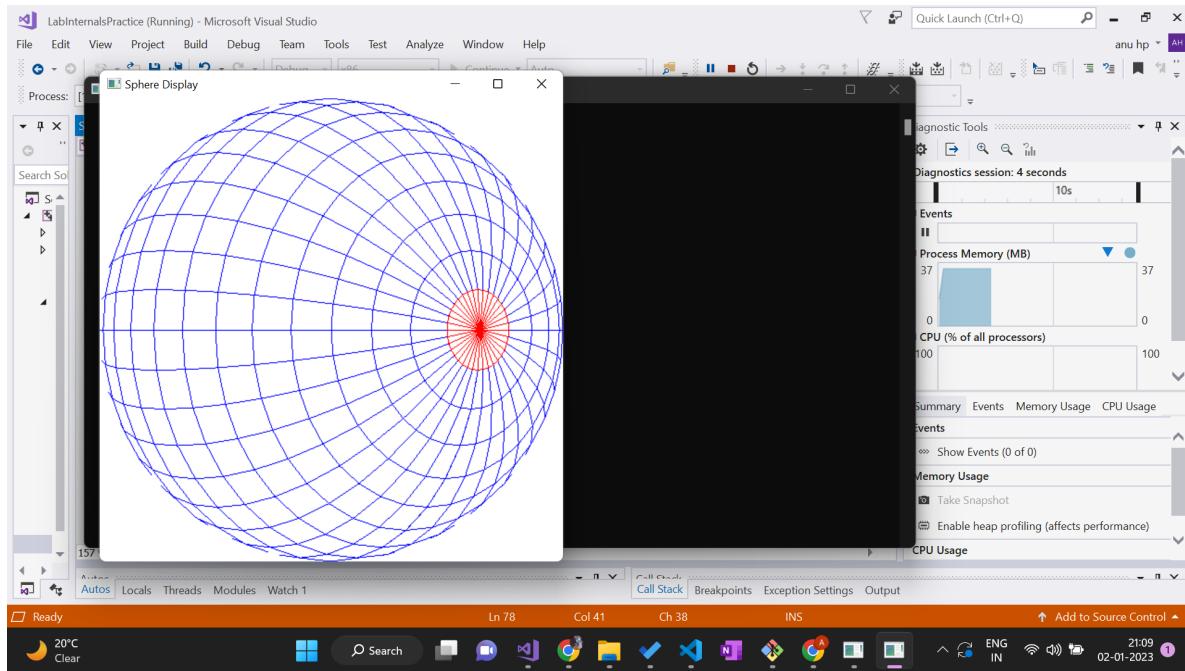
Need to add code to handle special cases (odd number of vertices in the list and so on)

I would appreciate if you can do it and create a pull request 😊

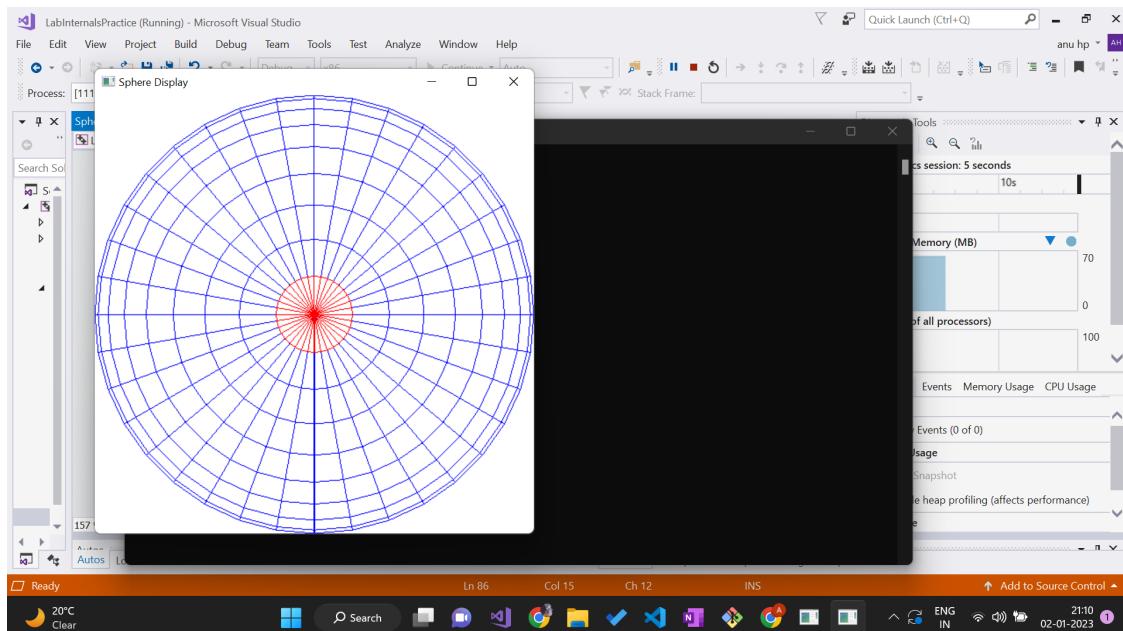
9. Sphere

(Imagine, z axis is perpendicular to the screen)

Rotation angle - 40 about y axis

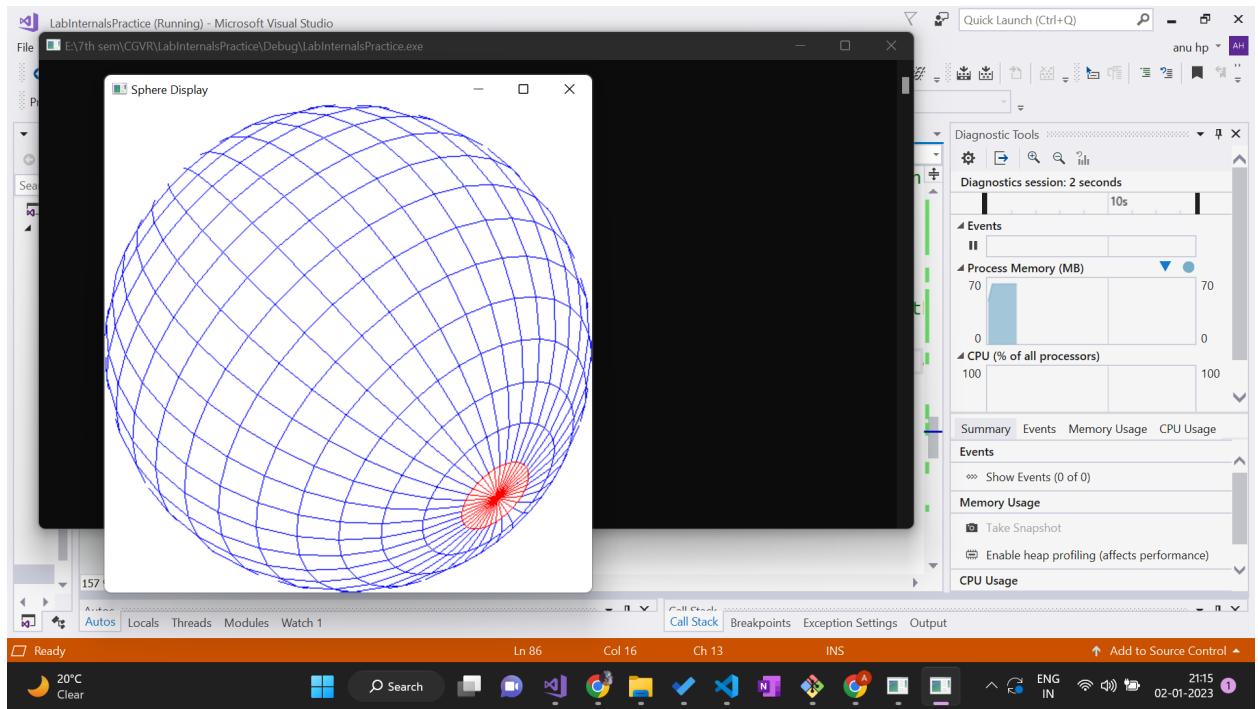


Rotation angle - 0 about y axis



Good, just like you imagined, rotation about z axis - you can't see any changes

Rotation angle - 60 about x and y axis



Some doubts are there , see the code - I have written comments

Again, if you can answer those, create a PR 😊

10.