Practical 1- August 31st

Topics: 2D Primitives, Callbacks, Drawing and 2D System Coordinates

Activities:

Complete the code written in prac1A.cpp, prac1b.cpp, and prac1C.cpp

- Prac1A.cpp: It is based on learn how to draw a square centered at window (work space, clipped window) and how to perform a mapping between window and viewport.
- Prac1b.cpp: It is based on understanding geometric primitives to draw a Two-Dimensional Sierpinski fractal.
- Prac1C.cpp: It is focused on understanding geometric primitives and mouse callback.

In the next activities use different background color, window size, view port size, work space size.

2. Based on prac1A

- a. Draw four 2D Primitives aligned horizontal, aligned vertical, or aligned to first or second diagonal.
- b. Apply a degraded color on two drawn primitives.
- c. Explain why and when use Projection matrix using the flag GL Projection
- d. Explain what does happen if window size is bigger or smaller that viewport

3. Based on prac1b

- a. Draw the Sierpinski fractal in different orientation.
- b. Change the background color

4. Based on prac1C

- a. Change the primitive figure (square) and size invoked when mouse is in motion.
- b. Use keystore callback and apply any behaviour on the window.