

Code Flow:

The function setup creates a display list for a single leg of the stool using the glGenLists function. Within the display list, the drawLeg function is called to draw a single leg.

The drawLeg function draws a cylinder. The cylinder is drawn using a triangle strip that connects pairs of vertices on the top and bottom rings of the cylinder. The drawSeat function is like drawLeg but draws circular top and bottom surfaces as well using a triangle fan.

The display function clears the color and depth buffers. It then loads the identity matrix, applies the current rotation angles for the x, y, and z axes, and draws the seat using drawSeat function and the three legs using display list, each translated and rotated to the appropriate position.

Screen Shot:





