Assignment 1:

The display has the size of 960 x 540 and a black background. It shows 8 cubes: 4 cubes in the front and 4 cubes in the back of the display screen. Each cube is drawn in a different color, and its outline is white. And each cube is rotating around its own axis. The 8 cubes are placed in a camera navigation system using keyboard.

Press ‘c’ key to cycle the colors between the cube faces.

Press up and down arrow keys to move the camera vertically along the Y-axis.

Press left and right arrow keys to move the camera horizontally along the X-axis.

Press ‘i’ key to move forward, relative to the camera’s current heading.

Press ‘j’ key to move left, relative to the camera’s current heading.

Press ‘k’ key to move right, relative to the camera’s current heading.

Press ‘i’ key to move backward, relative to the camera’s current heading.

Press ‘r’ key to reset the view to the start position.

Press ‘n’ key to narrow the horizontal field-of-view.

Press ‘w’ key to widen the horizontal field-of-view.

Press ‘+’ key toggles display of an orthographic projection of a cross hair centered over the scene.