Lab-7

Out date: April 06, 2016

Due date: April 20, 2016 at 11:59 PM

Problem statement: Using instancing concept and hierarchical modeling, write a program that draws a simple house of your own design **[40 points]**. A sample house is shown in the figure below.

Allow the user to move the scene left, right, up and down via the left, right, up and down arrow buttons on the keyboard respectively **[20 points]**. Allow the user to rotate the object along the X-axis, Y-axis and Z-axis via x, y and z keyboard buttons respectively **[20 points]**.

Extra points: When there is no event to handle, animate the drawing operation such that it starts with a blank canvas, and then add one item at a time. Once the drawing is completed keep it for a few seconds and then animate it from the

beginning. The drawing operation should take into account the current transformations **[25 points]**.

Scoring distribution [100 points]:

- 80 points for error-free execution and display the required outputs
- 20 points for comments and programming style

Blackboard submission:

1. Submit necessary files. The file name should be “Lab7_Group#”.
2. Zip the files.
3. Upload the zip file to the Blackboard system