Comp380

Programming Assignment #3 Due Mar.-16 (Thur.) (before 11:59pm)

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Objective: Understand how to perform transformations in terms of viewing space.

Developing environment: Usage of Windows OS and Visual Studio (2008 or higher) is mandatory **Requirements**:

- 1) Implement this assignment from the result of PA#2.
- 2) Provide two key maps, "m" and "v" to differential transformations defined in the modeling space and viewing space.
 - a. All the transformations implemented in PA#2 are now performed after you type "m".
 - b. If you type "v", all the transformations (, which will be described in 3) and 4) in this spec.) are performed in the * viewing space *.
- 3) Provide translation function along x, y, z directions in the viewing space (15 pts)
 - a. The amount of translations is determined by the mouse movement.
 - b. If you type "x" or "y", the cow model translates in the * viewing x-y space *; the cow should follow the mouse cursor pointer.
 - c. If you type "z", then the cow model translates along the z-direction in the * viewing space *.
- 4) Rotate the cow around the x-axis in the viewing space when you type "r". The center of the rotation is at the center of the modeling space. (15 pts)
 - a. The rotation amount is computed based on the mouse movement.

Deliveries:

- Binary and source codes of your solutions (Include a README.txt that specifies the files you made/changed)
 Please change the file extension of your binary from 'exe' to 'aaa' or something. If not, your submission will be sent back due to gmail policy.
- 2) Submit your work by sending them to TA, cs380ta@gmail.com

Policies: Everyone must turn in their own assignment. You can collaborate with others, but any work that you turn in should be your own.