

Home | Table of Contents | Overview Map

Farhad Kamangar <u>kamangar@uta.edu</u>

Mome

Teaching Assistants

Assignments

🛨 🧀 Handouts, Notes, and Supplemen...

Links to related graphic sites

Old Tests

Home > Assignments > Assignment 02 (Due date Oct. 6, 2024)

« Previous Next »

Assignment 02 (Due date Oct. 6, 2024)

Computer Graphics Assignment 02

DUE DATE: Oct. 6, 2024 11:59 PM

Purpose:

Practice in

- 3-dimensional composite transforms.
- 2-dimensional window to viewport mapping

Task:

Add the following commands to Assignment_01. Your program should be able to read from an input file and display data (same as Assignment 01).

 Rotate around line AB by D degrees in 100 incremental steps

This command rotates all the objects around line AB by **D** degrees in **100** incremental steps (coordinates of points A and B are specified by the user). The intermediate results should be displayed

 Scale Sx, Sy, Sz around point Ax, Ay, Az in 100 incremental steps

This command scales all the objects around point A(x,y,z) by Sx, Sy, and Sz in 100 incremental steps. The intermediate results should be displayed

Translate Tx, Ty, Tz, 100

This command translates all the objects by Tx, Ty, and Tz in **100** incremental steps. The intermediate results should be displayed

Sample data files:

- Pvramid
- Cow

• <u>Teapot</u>

Demo solution of Assignment 02

\land Тор

Computer Science and Engineering

Farhad Kamangar

Last updated: 2024-12-12