

Assignment-5

Course: Computer Graphics Lab
Semester: B.C.S.E. Third Year

Objective:

Draw a closed polygon and implement different transformation functions (with respect to origin) on it.

- a) translation
- b) rotation
- c) scaling
- d) shear
- e) reflection with respect to x/y axes

Extend the algorithm to apply the transformations successively on the same object using homogeneous coordinates and matrix multiplication.

- f) reflection with respect to arbitrary line
- g) rotation with respect to arbitrary point

Submission Deadline:

- Submission Deadline for Group(A1): 16/09/2025
- Submission Deadline for Group(A2): 18/09/2025
- Submission Deadline for Group(A3): 19/09/2025