CS 302/352: Computer Graphics and Visualization

Assignment #5

Transformations on a Polygon

1. Define a Polygon
- Take user input for the number of vertices (n).
- Enter n points as **(x,y)** coordinates of the polygon.

2. Rotation Operations
- Take user input for an angle **A** (in degrees) to rotate the polygon about the origin.
- Take user input for a point **(x1,y1)**.
- Take user input for an angle **B** (in degrees) to rotate the polygon about the **(x1,y1).**

3. Translation Operation
- Take user input for a translation to point coordinates **(X2, Y2)**.

Instructions

- Include comments in your code explaining each step.
- Provide code as well as output screenshot.
- Submit your answers in a pdf file with format: assignment5_<roll. no.>.pdf.