Barrackpore Rastraguru Surendranath College

B.Sc. Computer Science Semester VI 2022

Assignment on CMSACOR14P: Computer Graphics

Rules to be followed:

1. The handwritten / type written answer script containing *the code and the output* has to be submitted with a title page having the following details -

   Name, Registration No, Student ID, Paper Code, Paper Name

2. The codes can be written in either C language or in Python.

3. Assignments are supposed to be submitted in a channel file or in any similar way.

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1. Write a program to implement DDA line drawing algorithm.

2. Write a program to implement Bresenham's line drawing algorithm.

3. Write a program to implement mid-point circle drawing algorithm.

4. Write a program to clip a line using Cohen and Sutherland line clipping algorithm.

5. Write a program to apply various 2D transformations as listed below on a triangle with vertices A(100,100), B(500, 100), C(300, 300) (use homogenous coordinates): translation, rotation, scaling, reflection (about X-axis, Y-axis)