CSE423 Summer 2023 Assignment 1 Total: 10 marks

Deadline: 06/07/2023

Submission Link: https://forms.gle/idX3HpmNyCwzL2Ho6

- Using DDA Algorithm find out the pixels of the lines whose endpoints are given as
 i) (1,-4) to (5,6)
 ii) (10,9) to (2, 5)
- 2. Write down the functions/methods for zone finding, converting to zone-0 and converting to the original zone.
- 3. Using the midpoint line algorithm, find out the pixels of the lines whose endpoints are given as (3,10) and (10,15)
- 4. Suppose, the starting point of a line is (a, b). While drawing the line using the DDA Algorithm, Slope of the line was 2.6. If x has been increased 4 times. What will be the endpoint of the line?
- 5. Suppose, the starting point of a line is (a, b). While drawing the line using the Midpoint Line drawing algorithm, the East pixel has been chosen 4 times and the North-East pixel has been chosen 13 times. What will be the endpoint of the line?
- 6. Using Midpoint Line Drawing Algorithm find out the pixels of the lines whose endpoints are given as (1,-4) to (-5,-9).
- 7. i) Find out the first 5 pixels to draw the circle of radius 10 and centered at (-7, -12).
 - ii) What will be the pixel-values in zone 6?