Introduction to Computer Programming and Data Structures Assignment 09

Maximum Marks: – Submission Deadline: 2022-Nov-22

Topic: Matrix Algorithms

Assignment problem # AP0901

• Problem: Given a square matrix find the inverse of it, if exists.

• Input:

- The first line contains a positive integer n, the order of the matrix.
- It follows n lines where in each line is the row of the matrix where the elements are separated by spaces.
- Input file name "input_AP0901.txt".

Assignment problem # AP0902

• **Problem**: Given a square matrix find the determinant of it, if exists. Use row reduction method to calculate the determinant.

• Input:

- The first line contains a positive integer n, the order of the matrix
- It follows n lines where in each line is the row of the matrix where the elements are separated by spaces.
- Input file name "input_AP0902.txt".