

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_AP0801.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_AP0802.txt".