

Netaji Subhash Engineering College

Department of Artificial Intelligence and Machine Learning

B. Tech AIML 1st Year 2nd Semester

2022-2023

Name of the Course: Programming for Problem Solving

Course Code: ES-CS291

Day 5 - Problem Set

1. Write a C program that will perform Matrix addition (using pointer).
2. Write a C program that will perform Matrix Transpose (using pointer).
3. Write a C program that will perform Matrix Multiplication (using pointer).
4. Write a C program that will perform Matrix Inverse (using pointer).
5. Write a C program that will perform searching of a number in a single dimensional Array (using pointer).
6. Write a C program that will perform searching of a number in a multidimensional array (using pointer).
7. Write a C program that will perform Quick Sort (using pointer).
8. Write a C program that will perform Merge Sort (using pointer).
9. Write a C program that will print Armstrong numbers between “a” and “b” where “a” is a lower limit and “b” is an upper limit (using dynamic memory allocation).
10. Write a C program that will print factorial between lower limit and upper limit (using dynamic memory allocation).