

# Data Structure and Algorithms

## Assignment 2

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1. Write a program for finding sum and product (use iterative addition) of two polynomials using arrays and linked list

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/polyAddMult.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/polyAddMult.c)

2. Write program to insert, delete and search an element in a sorted linked list

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/LinkedlistOPerations.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/LinkedlistOPerations.c)

3. Write a program for addition , multiplication and fast transpose of sparse matrices

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/SparseMatrix.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/SparseMatrix.c)

4. Write a program to enter date of births of n persons and sort in ascending order of age using radix sort

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/datedortRadix2.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/datedortRadix2.c)

5. Write program to insert and delete elements from a Binary Search tree

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/BST2.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/BST2.c)

6. Write program for tree traversal in inorder,preorder,postorder

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/Traversal.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/Traversal.c)

7. Write a program to evaluate arithmetic expression using stack

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/postfixeval.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/postfixeval.c)

8. Write a program to maintain a priority queue using array

[https://github.com/iamAunderscoreK/DSA\\_Assignments/blob/main/priorityQarray.c](https://github.com/iamAunderscoreK/DSA_Assignments/blob/main/priorityQarray.c)

Thankyou!