15ACS05-DATA STRUCTURES LAB

L T P C 0 0 3 2

- 1. Write a C Program to implement Stack ADT Using arrays and linked lists?
- 2. Write a C Program to implement Queue ADT Using arrays and linked lists?
- 3. Write a c Program to convert infix expression to postfix expression?
- 4. Write a C Program to implement List ADT?
- 5. Write a C Program to implement Sparse Matrices?
- 6. Write a C Program to traverse Binary tree?
- 7. Write a C Program to implement priority queues using arrays?
- 8. Write a C++ program to implement the search algorithms of the graph: Depth first search and Breadth first search.
- 9. Write a C program to find the connected components of the graph.
- 10. Write a C program to implement the spanning tree algorithms Kruskal's, Prim's.
- 11. Write a C program to implement insertion sort algorithm
- 12. Write a C program to implement quick sort algorithm
- 13. Write a C program to implement merge sort algorithm
- 14. Write a C program to implement heap sort algorithm
- 15. Write a C Program to implement Static Hashing.
- 16. Write a C Program to implement Dynamic Hashing
- 17. Write a C Program to implement AVL Trees.
- 18. Write a C Program to implement RED Black Trees.
- 19. Write a C Program to implement Splay Trees.

Text Books:

1. Fundamentals of Data structures in C 2^{nd} edition HOROWITZ , SAHNI, ANDERSON-FREED.

Gril

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