

5. Write a program that implement Queue (its operations) using
 - i) Arrays
 - ii) ADT
6. Write a program that implements the following sorting methods to sort a given list of integers in ascending order
 - i) Radix Sort, ii) Heap sort, iii) Shell Sort, iv) Tree Sort
7. Write a program to implement the tree traversal methods (Recursive and Non-Recursive).
8. Write a program to implement
 - i) Binary Search tree
 - ii) B Trees
 - iii) B+ Trees
 - iv) AVL trees
 - v) Red - Black trees
9. Write a program to implement the graph traversal methods.
10. Write a program to implement the following Hash Functions: i) Division Method, ii) Multiplication Method, iii) Mid-square Method, iv) Folding Method

TEXT BOOKS:

1. Fundamentals of Data Structures , 2nd Edition, E. Horowitz, S. Sahni and Susan Anderson Freed, Universities Press.
2. Data Structures – A. S. Tanenbaum, Y. Langsam, and M. J. Augenstein, PHI/Pearson Education.

REFERENCE BOOKS:

1. Data Structures: A Pseudocode Approach with C, 2nd Edition, R. F. Gilberg and B. A. Forouzan, Cengage Learning.

ELECTRONIC RESOURCES:

1. <https://ds1-iiith.vlabs.ac.in/exp/linked-list/singly-linked-list/sllpractice.html>
2. <https://ds1-iiith.vlabs.ac.in/exp/linked-list/doubly-linked-list/dllpractice.html>
3. <https://ds1-iiith.vlabs.ac.in/exp/stacks-queues/stacks/stackarrays.html>
4. <https://ds1-iiith.vlabs.ac.in/exp/stacks-queues/queues/queuesarrays.html>
5. <https://ds1-iiith.vlabs.ac.in/exp/tree-traversal/depth-first-traversal/dft-practice.html>

MATERIALS ONLINE:

1. Lab Manual
2. Open-ended experiments