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| |  |  |  | | --- | --- | --- | | 13CS21P2 | - | Data Structures Laboratory | | | | | | | | |
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| Hours / Week | : | 3 | |  | Day-to-day Evaluation and a test | : | 40 |
| Credits | : | 2 | |  | End Examination Marks | : | 60 |

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| 1. Write java programs to implement the List ADT using arrays and linked lists. |
| 1. Write java programs to implement the following using Single linked list :    * 1. Stack ADT.      2. Queue ADT. |
| 1. Write java programs to implement the deque(double ended queue) ADT using    * 1. Array.      2. Doubly linked list. |
| 1. Write a java program to implement priority queue ADT. |
| 1. Write java programs to that use recursive and non-recursive functions to traverse the given binary tree in    * 1. Preorder.      2. Inorder and      3. Postorder. |
| 1. Write a java program that performs the following operations:    * 1. Insertion into an AVL-Tree.      2. Deletion from an AVL-Tree. |
| 1. Write java programs for implementing the following sorting methods:    * 1. Heap sort      2. Radix sort |