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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.
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| 1. Write java programs to implement the following using Single linked list :
	* 1. Stack ADT.
		2. Queue ADT.
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| 1. Write java programs to implement the deque(double ended queue) ADT using
	* 1. Array.
		2. Doubly linked list.
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| 1. Write a java program to implement priority queue ADT.
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| 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.
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| 1. Write a java program that performs the following operations:
	* 1. Insertion into an AVL-Tree.
		2. Deletion from an AVL-Tree.
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| 1. Write java programs for implementing the following sorting methods:
	* 1. Heap sort
		2. Radix sort
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