

KL University  
 Department of Basic Engineering sciences-I  
 DATA STRUCTURES LAB  
 List of Lab experiments in Sem-II for the Academic Year 2016-2017

Expt No.	Name of the Experiment
1	a. Interchange diagonals of a matrix
	b. Sort even and odd elements of array separately
2	a. Olympics Ratings
	b. Volume of a tetrahedron
3	a. Implement single linked list to print like 5 4 4 3 3 2 2 1 1 0 by taking input as 1 2 3 4 5
	b. Convert and print Decimal Equivalent of Binary Single Linked List
4	a. Find pairs with given sum in doubly linked list
	b. Detect and Remove Loop in a Linked List
5	a. Special array reversal
	b. String Weight
6	a. Print the Elements of a Linked List <a href="https://www.hackerrank.com/challenges/print-the-elements-of-a-linked-list">https://www.hackerrank.com/challenges/print-the-elements-of-a-linked-list</a>
	b. Merge two sorted linked lists <a href="https://www.hackerrank.com/challenges/merge-two-sorted-linked-lists">https://www.hackerrank.com/challenges/merge-two-sorted-linked-lists</a>
7	a. Balanced Brackets <a href="https://www.hackerrank.com/challenges/balanced-brackets">https://www.hackerrank.com/challenges/balanced-brackets</a>
	b. Queue using Two Stacks <a href="https://www.hackerrank.com/challenges/queue-using-two-stacks">https://www.hackerrank.com/challenges/queue-using-two-stacks</a>
8	a. Insertion Sort - Part 1 <a href="https://www.hackerrank.com/challenges/insertionsort1">https://www.hackerrank.com/challenges/insertionsort1</a>
	b. Quicksort 2 - Sorting <a href="https://www.hackerrank.com/challenges/quicksort2">https://www.hackerrank.com/challenges/quicksort2</a>
9	a. Tree: Preorder Traversal <a href="https://www.hackerrank.com/challenges/tree-preorder-traversal">https://www.hackerrank.com/challenges/tree-preorder-traversal</a>
	b. Tree: Postorder Traversal <a href="https://www.hackerrank.com/challenges/tree-postorder-traversal">https://www.hackerrank.com/challenges/tree-postorder-traversal</a>
	c. Tree: Inorder Traversal <a href="https://www.hackerrank.com/challenges/tree-inorder-traversal">https://www.hackerrank.com/challenges/tree-inorder-traversal</a>
10	Is This a Binary Search Tree? <a href="https://www.hackerrank.com/challenges/is-binary-search-tree">https://www.hackerrank.com/challenges/is-binary-search-tree</a>