

Silicon Institute of Technology, Bhubaneswar

B. Tech. 2nd Semester, Section – B

DSA Lab Assignment: #7 (Double Linked List & Dynamic Memory Allocation)

Date: 01 – 06 - 2022

Name of the Student:

Registration Number:

1. Write a menu driven program in C to implement a Double Linked List using Dynamic Memory

Allocation and apply various operations on it through separate functions as below:

- a) Create a Double linked list
- b) Display the list of elements (Both forward and backward)
- c) Search an element in the list
- d) Insert a node at the beginning of the list
- e) Insert a node at the end of the list
- f) Insert a node at a given position in the list
- g) Insert a node after a given node
- h) Delete the first node
- i) Delete the last node
- j) Delete a node at a given position
- k) Delete a node after a given node
- l) Sort the elements of the list in ascending order of their values

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