Institute of Computer Technology

B. Tech. Computer Science and Engineering

Sub: DS (2CSE302)

Practical -18

Objective: Implement the scenario based on doubly linked list & circular doubly linked list.

1. Jay wants to add forward and backward button in his website which directs the addresses to previous and next from the current value. Refer the given scenario and provide appropriate solution using doubly linked list:
   1. **Insert new item at the first position**
   2. **Insert new item at the last position**
   3. **Insert new item before the given value of node**
   4. **Insert new item after the given value of node**
   5. **Delete item from the first position**
   6. **Delete item from the last position**
   7. **Delete particular item**
   8. **Delete item before the given item**
   9. **Delete item after the given item**
   10. **Search item from the list**
   11. **Display all elements of the list**

Homework:
Refer same scenario and provide appropriate solution using circular doubly linked list.