CS23302 – DATA STRUCTURES LABOARATORY

SINGLE LINKED LIST

DATE: 30.7.26 **MAX.MARKS: 10**

1. **Implement the functions of stack and queue using single list that supports the following methods:**
    a. **NODE * create_node(element_type value);**
    b. **void insert_at_head(LIST *head, element_type value);**
    c. **void insert_at_tail(LIST *head, element_type value);**

       //success returns 1 or 0
    d. **int insert_at_position(LIST *head, element_type value, int position);**

    e. **void delete_by_value(LIST *head, element_type value);**
    f. **void delete_by_position(LIST *head, int position);**
    g. **void free_list(LIST *head);**