LINKEDLIST ALGORITHM

Step 1: LinkedList object is created
Step 2: The input is accepted by the Linkedlist only if it is of the same data type as declared.
Step 3: When the input is adding to the LinkedList a new node with doubly linkedlist is created and the input value is added to the center field of the node ,front field contains the address of before node and the rear field contains the next node address.
Step 4: Every time when an input is adding to the LinkedList it will create a new node whose front field points the before node address and rear field points to the next node address.
Step 5: If the input is adding in the middle of the list then a new node is created with the front field pointing the address of the before node where the node is to be added and the rear field points the next node of it.
Step 6: To delete the nth element in the LinkedList ,the address of the (n+1)th element is stored in the rear field of the (n-1)th element and the front field of (n+1)th element is stored with the address of (n-1)th element