**Dire Dawa University – Institute of Technology**
**School of Computing**
**Department of Information Technology**
**Data Structure and Algorithm Group Assignment (15%)**

1. Write a program to perform the following operations on Double Linked List
   a. Insertion of a node
      - at the beginning
      - at the end
      - at the given location
   b. Deletion of a node
      - at the beginning
      - at the end
      - at the given location
   c. Displaying the list of Nodes

2. Write a program to implement the following operations on Stack
   a. Adding and removing elements from the stack
   b. Converting any given infix expression to postfix expression from the keyboard
   c. Evaluating any given postfix expression from the keyboard

## NB:

- **For the double linked list problem, each node has to contain a minimum of one integer and two character of data type values**
- **Each operation has to be implemented using a function**
- **Menu is expected for each of the problems to choose the operations**
- **Make a group of maximum 5 students**
- **Submission Deadline: January 15th, 2024 G.C**