LAB 9

Stacks

1. Write a menu-driven program to implement stack using array with following options:

   1.Push

   2.Pop

   3.Display

   4.Exit

Output Test cases

*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):1
Enter element to push:3
*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):1
Enter element to push:6
*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):3
Stack is…
6
3
*** Stack Menu ***
1.Push
2.Pop

3.Display
4.Exit
Enter your choice(1-4):2
Deleted element is 6
*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):3
Stack is…
3
*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):2
Deleted element is 3
*** Stack Menu ***
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):2
Stack is empty!!

2. Write a menu-driven program to implement stack using linked list with following options:

   1.Push

   2.Pop

   3.Display

   4.Exit

   [Note: Output Test cases are same as in Que. 1]

3. WAP to convert an expression from postfix to infix.
4. WAP to convert an expression from infix to postfix.

5. WAP to convert an expression from infix to prefix.
6. WAP to evaluate postfix expression.
7. WAP to implement tower of Hanoi puzzle.