IMPLEMENTATION OF STACK

Design a Java interface for ADT Stack. Develop two different classes that implement this interface, one using array and the other using linked-list. Provide necessary exception handling in both the implementations.

ALGORITHM

- **STEP 1:** Create an interface which consists of three methods namely PUSH, POP and DISPLAY
- **STEP 2:** Create a class which implements the above interface to implement the concept of stack through Array
- **STEP 3:** Define all the methods of the interface to push any element, to pop the top element and to display the elements present in the stack.
- **STEP 4:** Create another class which implements the same interface to implement the concept of stack through linked list.
- **STEP 5**: Repeat STEP 4 for the above said class also.
- **STEP 6:** In the main class, get the choice from the user to choose whether array implementation or linked list implementation of the stack.
- **STEP 7:** Call the methods appropriately according to the choices made by the user in the previous step.
- **STEP 8:** Repeat step 6 and step 7 until the user stops his/her execution