DATE:26/03/2024

<p align="center">PROGRAM-3</p>

<p align="center">LAB-3</p>

AIM:-CREATE A JAVA PROGRAM TO IMPLEMENTS STACK AND QUEUE.

CODE:

```java
import java.util.*;

public class stack_and_quese {

    void stack(){

        int i;

        System.out.println("the enter size of stack ");

        Scanner sc= new Scanner(System.in);

        i= sc.nextInt();

        ArrayList<Integer> a= new ArrayList<>(i);

        int j=i;

        System.out.println("the enter elements in stack ");

        int e=0;

        while(e<j){


            int k= sc.nextInt();

            a.add(k);

            e++;

        }

        System.out.println("the delete elements in stack" );

        int  v=a.remove(j-1);
```

```java
        System.out.println(v);
    }
    void quese(){
        LinkedList<Integer> b= new LinkedList<>();
        Scanner sc= new Scanner(System.in);
        System.out.println("the enter size of quese ");
        int j= sc.nextInt();
        System.out.println("the enter your element in quese");
        int size=0;
        while(size<j){
        int i= sc.nextInt();
         b.addFirst(i);
         size++;
        }
        System.out.println("the remove element in quese ");
         int r= b.removeLast();
        System.out.println(r);
    }
    public static void main(String[] args) {
        stack_and_quese s= new stack_and_quese();
        s.stack();
        s.quese();
    }
}
```

OUTPUT:

```
the enter size of stack
5
the enter elements in stack
1
2
3
4
5
the delete elements in stack
5
the enter size of quese
5
the enter your element in quese
1
2
3
4
5
the remove element in quese
1
```