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package org.assignment.linkedlist;

import java.util.LinkedList;
import java.util.Scanner;

class StackOperation
{
    LinkedList<Integer> stacks;
    public StackOperation()
    {
        this.stacks=new LinkedList<>();
    }

    public void addElement(int stack)
    {
        stacks.add(stack);
        System.out.println(stacks);
    }
    public void removeElement()
    {
        if(stacks.isEmpty())
        {
            System.out.println("Stack is empty");
        }
        stacks.removeFirst();
        System.out.println(stacks);
    }

    public void searchElement(int element)
    {
        int index=stacks.indexOf(element);
        if(index== -1)
        {
            System.out.println(element+ " not found in the stack");
        }
        else
        {
            System.out.println(element + " found at " + index);
        }

        System.out.println(stacks);
    }
    public void display()
    {
        if(stacks.isEmpty())
        {
            System.out.println("stack is empty");
        }
    }
}
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        }
        else
        {
            System.out.println(stacks);
        }
    }

    public void Exit()
    {
        System.exit(0);
    }
}

public class StackLinkedList {

    public static void main(String[] args) {
        StackOperation s=new StackOperation();
        Scanner sc= new Scanner(System.in);

        while(true)
        {
            System.out.println("Enter your choice :\n1.add Element\n2.remove
Element\n3.search Element\n4.display\n5.Exit");
            int choice= sc.nextInt();
            switch (choice)
            {

                case 1:
                    System.out.println("enter element");
                    int element=sc.nextInt();
                    s.addElement(element);

                    break;

                case 2:
                    System.out.println("enter element to remove");
                    // element= sc.nextInt();
                    s.removeElement();
                    break;

                case 3:
                    System.out.println("Enter element to search");
                    element= sc.nextInt();
                    s.searchElement(element);
                    break;
                case 4: s.display();
                    break;

                case 5: s.Exit();
                    break;
            }
        }
    }
}

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        default:
            System.out.println("not valid option");
    }

}

}

}
```