

```

Ex. 1
package javastack;

import java.util.Scanner;
import java.util.Stack;

/**
 *
 * @author RESTIFICAR
 */
public class Input {

    public static void main(String[] args) {

        Stack <String> names= new Stack <>
        ();

        Scanner input = new Scanner
        (System.in);

        for(int i=1;i<6;i++){
            System.out.print("Name " + i + ":
");
            String element=input.nextLine();
            names.push(element);
        }

        //print stack element
        System.out.println();
        System.out.println("Inputted
Names are: ");
        for(int i=0;i<names.size();i++){
            System.out.println(names.get(i)
);
        }

        System.out.println();

        String element = names.pop();
        System.out.println("Removed
Element: " + element);

        System.out.println();

        element = names.peek();
        System.out.println("Element at top:
" + element);

        System.out.println();

        names.insertElementAt("Zach", 2);
        System.out.println(""+names);

        System.out.println();

        names.insertElementAt("Ynna", 2);
        System.out.println(""+names);
    }
}

```

```

Ex. 2

package javastack;

import java.util.Stack;

public class JavaStack {

    public static void main(String[] args) {
        Stack <String> names= new Stack <>
        ();

        System.out.println("PUSH
METHOD");
        // Add elements to Stack using
        push() method
        names.push("Anna");
        names.push("Ben");
        names.push("Catherine");
        names.push("David");
        System.out.println("Stack: " +
names);

        int x=names.size();
        System.out.println("The stack size
is: "+x);

        System.out.println();

        System.out.println("POP
METHOD");
        // Remove element stacks
        String element = names.pop();
        System.out.println("Removed
Element: " + element);

        System.out.println();

        System.out.println("PEEK
METHOD");
        // Access element from the top
        element = names.peek();
        System.out.println("Element at top:
" + element);

        System.out.println();

        System.out.println("SEARCH
METHOD");
        // Search an element
        int position =
names.search("Anna");
        System.out.println("Position of
Anna: " + position);

        System.out.println();

        System.out.println("EMPTY
METHOD");
        // Check if stack is empty
        boolean result = names.empty();
        System.out.println("Is the stack
empty? " + result);

```

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        System.out.println();

        names.insertElementAt("Sarah", 2);
        //insertElementAt(element, index)
        System.out.println(""+names);
    }
}

Ex. 3

/**
 * To change this license header, choose
License Headers in Project Properties.
 * To change this template file, choose
Tools | Templates
 * and open the template in the editor.
 */
package javastack;

//import java.util.Stack;

import java.util.Stack;

/**
 *
 * @author RESTIFICAR
 */
public class NewStack {

    /**
     * @param args the command line
     arguments
     */
    public static void main(String[] args) {
        Stack<Integer> stack = new
Stack<>();

        stack.push(10);
        stack.push(20);
        stack.push(30);

        System.out.println("Stack: " + stack);

        System.out.println("Top element: " +
stack.peek());

        System.out.println("Popped
element: " + stack.pop());

        System.out.println("Is stack empty?
" + stack.empty());

        System.out.println("Position of 10: "
+ stack.search(10));

        System.out.println("Final Stack: " +
stack);
    }
}

```