```
Ex. 1
                                                               String element = names.pop();
package javastack;
                                                               System.out.println("Removed Element: "
                                                                                                                      Ex. 4
                                                           + element);
import java.util.Scanner;
                                                                                                                      package javaact1;
                                                               System.out.println();
import java.util.Stack;
                                                                                                                      import java.util.Scanner;
                                                               System.out.println("PEEK METHOD");
                                                                                                                      import java.util.Stack;
                                                               // Access element from the top
* @author RESTIFICAR
                                                               element = names.peek():
                                                               System.out.println("Element at top: " +
public class Input {
                                                                                                                      * @author Lenovo Thinkpad
  public static void main(String[] args) {
                                                                                                                      public class JavaACT1 {
                                                               System.out.println();
                                                               System.out.println("SEARCH METHOD");
    Stack <String> names= new Stack <> ();
                                                                                                                         * @param args the command line
                                                               // Search an element
    Scanner input = new Scanner (System.in);
                                                               int position = names.search("Anna");
                                                                                                                      arguments
                                                               System.out.println("Position of Anna: " +
                                                           position);
    for(int i=1;i<6;i++){
      System.out.print("Name " + i + ": ");
                                                               System.out.println():
                                                                                                                        public static void main(String[] args) {
       String element=input.nextLine();
                                                                                                                          Stack<String> inventory = new Stack<>();
      names.push(element);
                                                               System.out.println("EMPTY METHOD");
                                                                                                                          Scanner input = new Scanner(System.in);
                                                               // Check if stack is empty
                                                               boolean result = names.empty();
                                                                                                                          //ADDING VALUE TO THE STOCK
                                                               System.out.println("Is the stack empty?"
                                                                                                                           ..
System.out.println("Enter How many
    //print stack element
    System.out.println();
                                                           + result);
                                                                                                                      stock to put: ");
    System.out.println("Inputted Names are:
                                                                                                                          int num_stock_to_enter = input.nextInt();
                                                                                                                          input.nextLine();
");
                                                               System.out.println();
                                                                                                                          for(int i=0; i<num_stock_to_enter; i++){
      for(int i=0;i<names.size();i++){
        System.out.println(names.get(i));
                                                               names.insertElementAt("Sarah", 2);
                                                                                                                            System.out.print("Enter Product: ");
                                                           //insertElementAt(element, index)
                                                                                                                            String prod = input.nextLine();
                                                               System.out.println(""+names);
                                                                                                                            inventory.add(prod);
    System.out.println();
                                                                                                                          //GETTING ALL THE VALUE OF THE STOCK
    String element = names.pop();
                                                          }
    System.out.println("Removed Element: "
                                                                                                                           System.out.println("INVENTORY:");
                                                                                                                          for(String key : inventory)
+ element);
                                                                                                                      System.out.println(key);
    System.out.println();
                                                          Ex. 3
                                                                                                                          System.out.println("Removed:
    element = names.peek();
                                                                                                                      "+inventory.pop());
                                                            * To change this license header, choose
    System.out.println("Element at top: " +
                                                                                                                          System.out.println("Top:
                                                           License Headers in Project Properties.
                                                                                                                      "+inventory.peek());
element):
                                                           * To change this template file, choose Tools |
    System.out.println();
                                                           Templates
                                                                                                                          System.out.println("CURRENT IN THE
                                                            ^{\star} and open the template in the editor.
                                                                                                                      INVENTORY:");
    names.insertElementAt("Zach", 2);
                                                                                                                          for(String key : inventory)
    System.out.println(""+names);
                                                           package javastack;
                                                                                                                      System.out.println(key);
                                                                                                                          System.out.println("Is inventory empty?:
    System.out.println();
                                                           //import java.util.Stack;
                                                                                                                      "+ inventory.isEmpty());
     names.insertElementAt("Ynna", 2);
                                                           import java.util.Stack;
    System.out.println(""+names);
                                                           * @author RESTIFICAR
}
                                                           public class NewStack {
                                                              * @param args the command line
Ex. 2
                                                           arguments
package javastack;
                                                             public static void main(String[] args) {
                                                               Stack<Integer> stack = new Stack<>();
import java.util.Stack;
                                                             stack.push(10);
public class JavaStack {
                                                               stack.push(20);
                                                               stack.push(30);
                                                             System.out.println("Stack: " + stack);
  public static void main(String[] args) {
    Stack <String> names= new Stack <> ();
                                                             System.out.println("Top element: " +
                                                           stack.peek());
    System.out.println("PUSH METHOD");
    // Add elements to Stack using push()
                                                               System.out.println("Popped element: " +
method
    names.push("Anna");
                                                           stack.pop());
    names.push("Ben");
    names.push("Catherine");
                                                               System.out.println("Is stack empty? " +
    names.push("David"):
                                                           stack.empty());
    System.out.println("Stack: " + names);
                                                               System.out.println("Position of 10: " +
    int x=names.size():
                                                           stack.search(10));
    System.out.println("The stack size is:
"+x);
                                                               System.out.println("Final Stack: " + stack);
    System.out.println();
                                                            }
    System.out.println("POP METHOD");
    // Remove element stacks
```