BATAAN PENINSULA STATE UNIVERSITY – MAIN CAMPUS
COLLEGE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
1ST SEMESTER, A.Y. 2022-2023
ICTC0613 – DATA STRUCTURES AND ALGORITHM
IZEN GRANYEL S. CAPILI
BS INFORMATION TECHNOLOGY – NW2C   **WEEK #4 – ASSIGNMENT 4B**

```java
package activity4b;

import java.util.Scanner;

public class Activity4B {
    static int num;
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.print("Enter length of an array: ");
        int p = Integer.parseInt(scan.next());
        int[] o = new int[p];
        System.out.println("Enter all the "+ p +" elements: ");
            for(int u = 0; u < o.length; u++){
                o[u] = scan.nextInt();
        }
        int choice;
        System.out.println("Please Choose an option");
        System.out.println("(1) Insert a value ");
        System.out.println("(2) Delete a value ");
        System.out.println("(3) Traverse array ");
        System.out.println("(4) Exit ");
        System.out.print("Enter your choice: ");
        choice = scan.nextInt();
            switch (choice)
            {

                case 1:
        System.out.println("Enter location index: ");
        int loc = scan.nextInt();
        System.out.println("Enter value to insert: ");
        int val = scan.nextInt();
```

```java
        System.out.print("Enter your choice: ");
        choice = scan.nextInt();
            switch (choice)
            {

                case 1:
        System.out.println("Enter location index: ");
        int loc = scan.nextInt();
        System.out.println("Enter value to insert: ");
        int val = scan.nextInt();
            for(int t = o.length-1; t>loc; t--){
                o[t] = o [t-1];
        }
                o[loc] = val;
        System.out.println("After inserting: ");
            for(int a:o){
        System.out.println(a);
        }
                break;

                case 2:
        System.out.println("Enter index location to delete: ");
        int dlts = scan.nextInt();
            for(int r = dlts; r<o.length-1; r++){
                o[r] = o[r+1];
        System.out.println(o[r]);
        }
                break;

                case 3:
        System.out.println("Traverse array: ");
            for(int e = 0; e<o.length; e++){
```
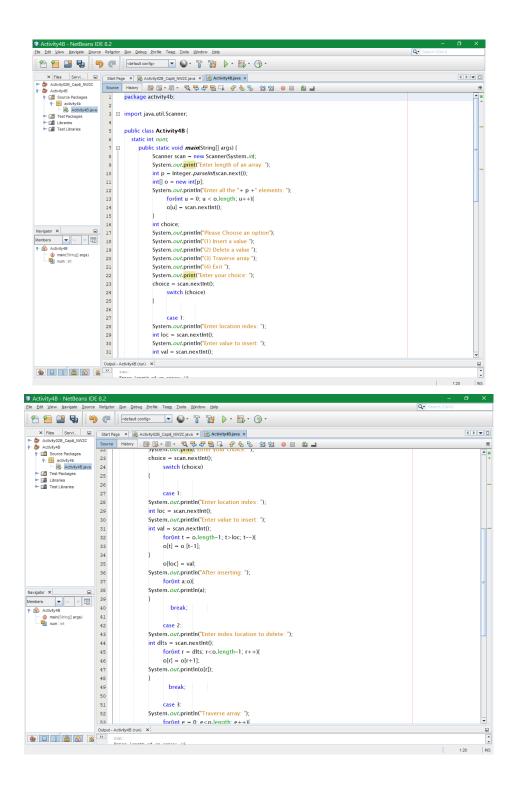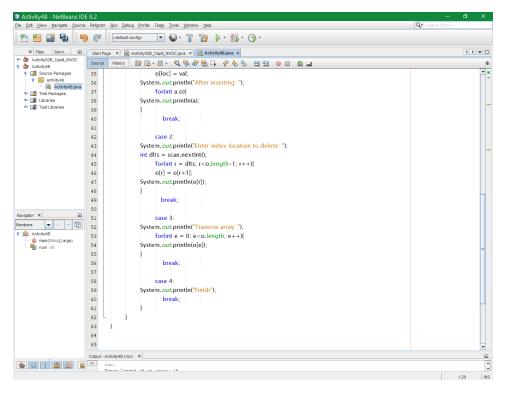
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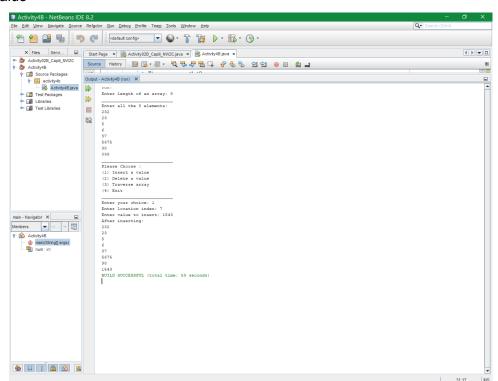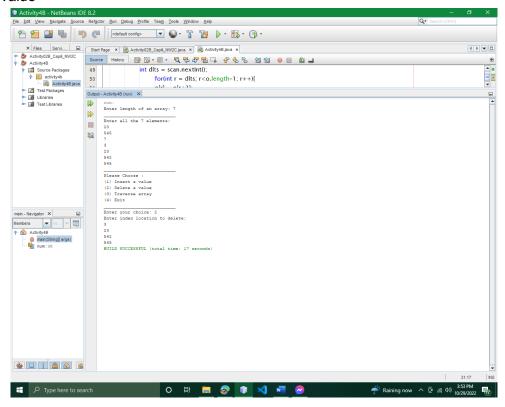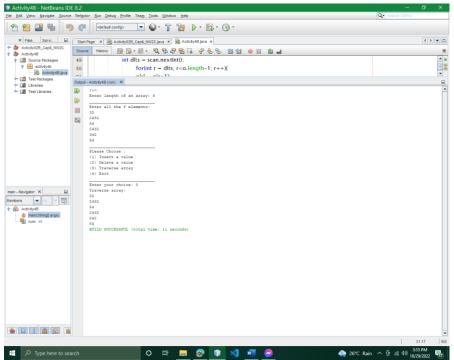ICTC0613 – DATA STRUCTURES AND ALGORITHM

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Insert a value

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WEEK #4 – ASSIGNMENT 4B

Delete a value

Traverse array

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WEEK #4 – ASSIGNMENT 4B

Exit