



Worksheet - 6

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UID – 20BCS2761
BRANCH – CSE BTECH
SEC – WM 902 B
SUB -JAVA LAB
```

1. Aim/Overview of the practical:

Write a Program to perform the basic operations like insert, delete, display and search in list. List contains String object items where these operations are to be performed.

2. Code:

```
import java.util.Scanner;
import java.util.ArrayList;
public class exp6{
       public static void main(String[] args) {
               ArrayList<String> a1 = new ArrayList<>();
               Scanner sc = new Scanner(System.in);
               String s = "";
               System.out.println("Following are the operations:\n1) Insert \n2) Search \n3) Delete \n4) Display
\n5) Exit");
               while(true) {
                       System.out.println("\nEnter your choice:");
                       int ch = sc.nextInt();
                       switch (ch) {
                              case 1 -> {
                                      System.out.println("Enter the element to be inserted:");
                                      s = sc.next();
                                      a1.add(s);
```





```
System.out.println("Inserted successfully!");
                       case 2 -> {
                               System.out.println("Enter the element to search:");
                               s = sc.next();
                               for (int i = 0; i < a1.size(); i++) {
                               if (a1.get(i).equals(s)) {
                                               System.out.println("Element found at " + i + " index");
                                               break;
                                       if (i == a1.size() - 1) 
                                               System.out.println("Item not found in the list.");
                                       }
                               }
                       case 3 -> {
                               System.out.println("Enter the item to delete:");
                               s = sc.next();
                               for (int i = 0; i < a1.size(); i++) {
                               if (a1.get(i).equals(s)) {
                                               al.remove(i);
                                               System.out.println("Deleted successfully!");
                                               break;
                                       if (i == a1.size() - 1)
                                               System.out.println("Element does not exist");
                               }
                       case 4 -> {
                               System.out.println("Elements in the list are:");
                       for (String value : a1) {
System.out.print(value + "");
                       case 5 -> System.exit(1);
                       default -> System.out.println("Invalid choice!");
               }
}
```

}





3. Result/Output:

```
Reproblems @ Javadoc 🖺 Declaration 📮 Console 🗴
<terminated> exp6 [Java Application] /Users/konichivo/Library/Java/JavaVirtualMachi
                                                                     Elements in the list are:
Following are the operations:

    Insert
    Search

                                                                     Enter your choice:
3) Delete
                                                                     Enter the element to search:
4) Display
                                                                     Element found at 0 index
Enter your choice:
                                                                     Enter your choice:
                                                                     Enter the item to delete:
Enter the element to be inserted:
Inserted successfully!
                                                                     Deleted successfully!
Enter your choice:
                                                                     Enter your choice:
Enter the element to be inserted:
                                                                     Elements in the list are:
10
Inserted successfully!
                                                                     Enter your choice:
Enter your choice:
```

Learning outcomes (What I have learnt):

1.Learnt about the concept of ArrayList and its functions such as add, remove and size.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

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Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			
1		1	







