Discover. Learn. Empower.

Experiment – 2.3

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Branch: BE-CSE Semester: 06

Subject Name: Project-Based Learning

in Java with Lab

UID: 21BCS2856

Section: KRG_CC_1-B **Date of Performance:**

Subject Code: 21CSH-319

Aim:

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.

Code:

```
package jatin;
import java.util.*;
public class exp6 {
       private static void insert(ArrayList<String> list, String item){
               list.add(item);
               System.out.println(item + " inserted successfully.");
       private static void delete(ArrayList<String> list, String item){
               if (list.remove(item))
                       System.out.println(item + " deleted successfully.");
               else
                       System.out.println(item + " not found in the list.");
       private static void display(ArrayList<String> list){
               if (list.isEmpty()){
                       System.out.println("List is empty.");
               } else {
                       System.out.println("List contents:");
                       for (String item: list)
                               System.out.println(item);
               }
       private static void search(ArrayList<String> list, String item){
               if (list.contains(item))
```

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```
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                  System.out.println(item + " found in the list.");
          else
                  System.out.println(item + " not found in the list.");
   }
   public static void main(String[] args){
          ArrayList<String> stringList = new ArrayList<>();
          Scanner scanner = new Scanner(System.in);
          boolean running = true;
          while (running){
                  System.out.println("\nSelect an option:");
                  System.out.println("1. Insert");
                  System.out.println("2. Delete");
                  System.out.println("3. Display");
                  System.out.println("4. Search");
                  System.out.println("5. Exit");
                  int choice = scanner.nextInt();
                  scanner.nextLine();
                  switch (choice){
                  case 1:
                          System.out.println("Enter the string to insert:");
                          String insertString = scanner.nextLine();
                          insert(stringList, insertString);
                          break;
                  case 2:
                          System.out.println("Enter the string to delete:");
                          String deleteString = scanner.nextLine();
                          delete(stringList, deleteString);
                          break;
                  case 3:
                          display(stringList);
                          break:
                  case 4:
                          System.out.println("Enter the string to search:");
                          String searchString = scanner.nextLine();
                          search(stringList, searchString);
                          break;
                  case 5:
```

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Output:

