## **Experiment-2.3**

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**Semester**: 6<sup>TH</sup> **Date of Performance**:05/03/2024

**Subject Name:** Project Based learning with Java **Subject Code:** 21CSH-319

**1. 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.

**2. Objective:** The objective of Program is 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.

## 3. Algorithm/Approach/Code:

}

```
System.out.println("4. Display");
  System.out.println("5. Exit");
  System.out.print("Enter your choice: ");
  choice = scanner.nextInt();
  switch (choice) {
     case 1:
       insert(stringList, scanner);
       break;
     case 2:
       search(stringList, scanner);
       break;
     case 3:
       delete(stringList, scanner);
       break;
     case 4:
       display(stringList);
       break;
     case 5:
       System.out.println("Exiting...");
       break;
     default:
       System.out.println("Invalid choice. Please try again.");
       break;
  }
} while (choice != 5);
```

```
public static void insert(ArrayList<String> list, Scanner scanner) {
  System.out.print("Enter the string to insert: ");
  String item = scanner.next();
  list.add(item);
  System.out.println("String inserted successfully.");
}
public static void search(ArrayList<String> list, Scanner scanner) {
  System.out.print("Enter the string to search: ");
  String item = scanner.next();
  if (list.contains(item)) {
     System.out.println("String found in the list.");
  } else {
     System.out.println("String not found in the list.");
  }
}
public static void delete(ArrayList<String> list, Scanner scanner) {
  System.out.print("Enter the string to delete: ");
  String item = scanner.next();
  if (list.remove(item)) {
     System.out.println("String deleted successfully.");
  } else {
     System.out.println("String not found in the list.");
  }
}
public static void display(ArrayList<String> list) {
```

```
System.out.println("List of strings:");
for (String item : list) {
    System.out.println(item);
}
}
```

## 4. Output:

```
    Insert
    Search

3. Delete
4. Display
Enter your choice: 1
Enter the string to insert: a
String inserted successfully.
4. Display
5. Exit
Enter your choice: 1
Enter the string to insert: b
String inserted successfully.
1. Insert
Enter your choice: 4
List of strings:
1. Insert
2. Search
3. Delete
4. Display
Enter your choice: 3
Enter the string to delete: a
String deleted successfully.
```

## 5. Learning Outcomes:

- 1) Array of list to store multiple string Information
- 2) Oops concept
- 3) Switch Statements