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**Subject Code:** 20CSP - 321

**Subject Name:** Project Based Learning in Java

## **EXPERIMENT - 06**

### **PROBLEM STATEMENT :**

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 :**

```
import java.util.Scanner;
import java.util.List;
import java.util.ArrayList;

public class exp2_3 {
    public static void main(String args[]) {
        List<String> list = new ArrayList<String>();

        int loop = 1;
        Scanner s = new Scanner(System.in);
        String str;

        System.out.println("\nMAIN MENU \n=====");
        System.out.println("1. Insert");
        System.out.println("2. Search");
        System.out.println("3. Delete");
        System.out.println("4. Display");
        System.out.println("5. Exit");

        do{
            System.out.print("\nEnter your choice : ");

            int choice;
            choice = s.nextInt();

            if (choice == 1) {
                System.out.print("Enter the item to be inserted : ");
                str = s.next();
                list.add(str);
            }
        }
```

```
        else if (choice == 2) {
            System.out.print("Enter the item to be searched : ");
            str = s.next();
            if (list.indexOf(str) == -1) {
                System.out.println(str + " is not present");
            } else {
                System.out.println(str + " is present at index " + list.indexOf(str));
            }
        }
    }
    else if (choice == 3) {
        System.out.print("Enter the item to delete : ");
        str = s.next();
        if (list.indexOf(str) == -1) {
            System.out.println(str + " is not present");
        } else {
            System.out.println(str + " is deleted");
            list.remove(str);
        }
    }
    else if (choice == 4) {
        System.out.print("The Items in the list are : ");
        for (String x : list) {
            System.out.print(x + " ");
        }
        System.out.println();
    }
    else if (choice == 5) {
        loop = 0;
    }
    else {
        System.out.println("Enter number from 0 to 5 only");
    }
} while (loop == 1);
}
```



**OUTPUT :**

```
(base) tejasnirala@Tejass-MacBook-Air src % cd "/Users/tejasnirala/PBLJ/untitled/src/" && javac exp2_3.java

MAIN MENU
=====
1. Insert
2. Search
3. Delete
4. Display
5. Exit

Enter your choice : 1
Enter the item to be inserted : Bag

Enter your choice : 1
Enter the item to be inserted : Bottle

Enter your choice : 1
Enter the item to be inserted : Cap

Enter your choice : 1
Enter the item to be inserted : Tiffin

Enter your choice : 1
Enter the item to be inserted : Mouse

Enter your choice : 2
Enter the item to be searched : Tiffin
Tiffin is present at index 3

Enter your choice : 3
Enter the item to delete : Mouse
Mouse is deleted

Enter your choice : 4
The Items in the list are : Bag   Bottle   Cap   Tiffin

Enter your choice : 5
(base) tejasnirala@Tejass-MacBook-Air src %
```