Experiment 2.3

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Branch: BE CSE **Section/Group: 906 / B**

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Subject: Problem Based Learning in Java **Subject Code: 20CSP_321**

1. **Aim/Overview of the Practical:**
   Operations on String List.

2. **Task to be done / Which logistics used:**
   Write a program to perform the basic operations like insert, delete, display, search in list. List contains String object items where these operations are to be performed.

3. **Steps for experiment/practical/Code:**

```
import java.util.*;
public class stringList
{
 public static void main(String[] args)
 {
 LinkedList<String> list= new LinkedList<>();
 Scanner sc= new Scanner(System.in);
 int choice;
 do {
 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");
System.out.println("Enter your choice: ");
choice= sc.nextInt();
switch (choice) {
case 1:
System.out.println("Enter Item to be inserted:");
String item = sc.next();
System.out.println();
list.add(item);
System.out.println("Item inserted successfully");
break;
case 2:
System.out.println("Enter Item to search:");
item = sc.next();
System.out.println();
if (list.contains(item))
{
System.out.println("Item found in the list!!");
}
else
{
System.out.println("Item not found in the list!!");
}
break;
case 3:
System.out.println("Enter Item to be deleted:");
item = sc.next();
System.out.println();
if(list.contains(item))
{
list.remove(item);
System.out.println("Item removed successfully!!");
```

```
}
else
{
System.out.println("Item do not exist!");
}
break;
case 4:
Iterator itr = list.iterator();
System.out.println("Items of list are:");
while (itr.hasNext())
{
System.out.println(itr.next());
}
break;
}
}
while (choice!=5);
}
}
```

4. Result/Output/Writing Summary:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\New folder> cd "c:\Users\YANA SRIVASTAVA\Downloads\New folder\" ; if ($?) { javac stringList.java } ;
 if ($?) { java stringList }
1. Insert
2. Search
3. Delete
4. Display
5. Exit
Enter your choice:
1
Enter Item to be inserted:
Monitor

Item inserted successfully
1. Insert
2. Search
3. Delete
5. Exit
Enter your choice:
4
Items of list are:
Monitor
1. Insert
2. Search
3. Delete
4. Display
5. Exit
Enter your choice:
5
PS C:\Users\YANA SRIVASTAVA\Downloads\New folder>
```

Learning outcomes (What I have learnt):

a. Learnt about maps.
b. Got an overview of the maps and hashing.
c. Get to know about crucial test cases.
d. Got an understanding about referencing of maps.
e. Learn how to insert, search, delete an element in a list.

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

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