**Worksheet-2.3**

**Student Name:- Pushpraj Roy UID:- 20BCS9866**

**Branch:- BE- CSE Section/Group:- WM\_617 “A”**

**Subjetct Code:- 20CSP-321 Semester:- 5th**

**Subject Name:- PBLJ 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.**

1. **Task To be done :-**

**Write the program to create an application to perform a List manipulation.**

1. **S/W Requirements:-**

* JDK
* VS Code

1. **Code :-**

**package unit2;**

**import java.util.\*;**

**import java.util.Scanner;**

**public class WorkSheet6 {**

**public static List<String> list=new ArrayList<String>();**

**void addItem(String item) {**

**list.add(item);**

**}**

**void displayItem() {**

**if(list.size()>0) {**

**for(String name:list)**

**System.out.println(name);**

**}else**

**System.out.println("List is Empty");**

**}**

**void searchItem(String item) {**

**if(list.size()>0) {**

**if(list.contains(item))**

**System.out.println(item+" is Present");**

**else**

**System.out.println(item+" is not Present");**

**}else**

**System.out.println("List is Empty");**

**}**

**void deleteItem(String item) {**

**if(list.size()>0) {**

**if(list.contains(item)) {**

**list.remove(item);**

**System.out.println(item+" is removed");**

**}else**

**System.out.println(item+" is not Present");**

**}else**

**System.out.println("List is Empty");**

**}**

**public static void main(String[] args) {**

**WorkSheet6 obj = new WorkSheet6();**

**boolean flag=true;**

**String item;**

**int choice;**

**Scanner in = new Scanner(System.in);**

**while(flag) {**

**System.out.println("\nMAIN MENU");**

**System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*");**

**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("\nEnter your choice:");**

**choice = in.nextInt();**

**switch(choice)**

**{**

**case 1:**

**{**

**System.out.println("Enter the item: ");**

**item = in.next();**

**obj.addItem(item);**

**break;**

**}**

**case 2:**

**{**

**System.out.println("Enter the item: ");**

**item = in.next();**

**obj.searchItem(item);**

**break;**

**}**

**case 3:**

**{**

**System.out.println("Enter the item: ");**

**item = in.next();**

**obj.deleteItem(item);**

**break;**

**}**

**case 4:**

**{**

**System.out.println("\nElement of Lists are: ");**

**obj.displayItem();**

**break;**

**}**

**case 5:**

**{**

**System.out.println("Exiting...!! Thanks for using the application");**

**flag=false;**

**break;**

**}**

**default:**

**{**

**System.out.println("Wrong input!!");**

**}**

**}**

**}**

**in.close();**

**}**

**}**

1. **Result/Output/Writing Summary:-**
2. **Learning Outcomes (What I have learnt) :-**