LAB INDEX

NAME: Vivek Kumar SUBJECTNAME: Project Based Learning in Java Lab

UID: 21BCS8129 SUBJECTCODE: 20CSP-314

SECTION: WM-20BCS-616/A

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Program** | **Date** | **Evaluation** | | | | **Sign** |
| **LW**  **(12)** | **VV**  **(10)** | **FW**  **(8)** | **Total**  **(30)** |
| 1 | Create an application to save the employee information using arrays. | 09-08-2022 |  |  |  |  |  |
| 2 | Design and implement a simple inventory control system for a small video rentalstore. | 23-08-2022 |  |  |  |  |  |
| 3 | Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance. | 02-09-2022 |  |  |  |  |  |
| 4 | Create a program to show the usage of Sets of Collection interface. | 27-09-2022 |  |  |  |  |  |
| 5 | Create a program to set view of Keys from Java Hashtable. | 27-09-2022 |  |  |  |  |  |
| 6 | 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. | 04-10-2022 |  |  |  |  |  |
| 7 | Create a menu based Java application with the following options.1.Add an Employee2.Display All3.Exit If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file. If option 2 is selected, the application should display all the employee details. If option 3 is selected the application should exit. |  |  |  |  |  |  |
| 8 | Create a palindrome creator application for making a longest possible palindrome out of given input string. |  |  |  |  |  |  |
| 9 | Create a Servlet/ application with a facility to print any message on web browser. |  |  |  |  |  |  |
| 10 | Create JSP application for addition, multiplication and division. |  |  |  |  |  |  |

## CHANDIGARH UNIVERSITY

## UNIVERSITY INSTITUTE OF NGINEERING

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



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| --- | --- |
| **Submitted By: Submitted To:**  Vivek Kumar(21BCS8129) Neeru Sharma(E12950) | |
| **Subject Name** | Project Based Learning in Java Lab |
| **Subject Code** | 20CSP-321 |
| **Branch** | Computer Science and Engineering |
| **Semester** | 5th |

**Experiment - 6**

**Student Name: Vivek Kumar UID: 21BCS8129**

**Branch: BE-CSE(LEET) Section/Group:20BCS-WM-616/A**

**Semester: 5th Date of Performance: 27/09/2022**

**Subject Name:** **Project Based Learning in Java Lab Subject Code: 20CSP-321**

**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.

**2. Task to be done/ Which logistics used:**

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

**3. Software Requirements (For programming-based labs):**

* JDK-8 or any
* Eclipse-IDE for Java

**4. Steps for experiment/practical/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();

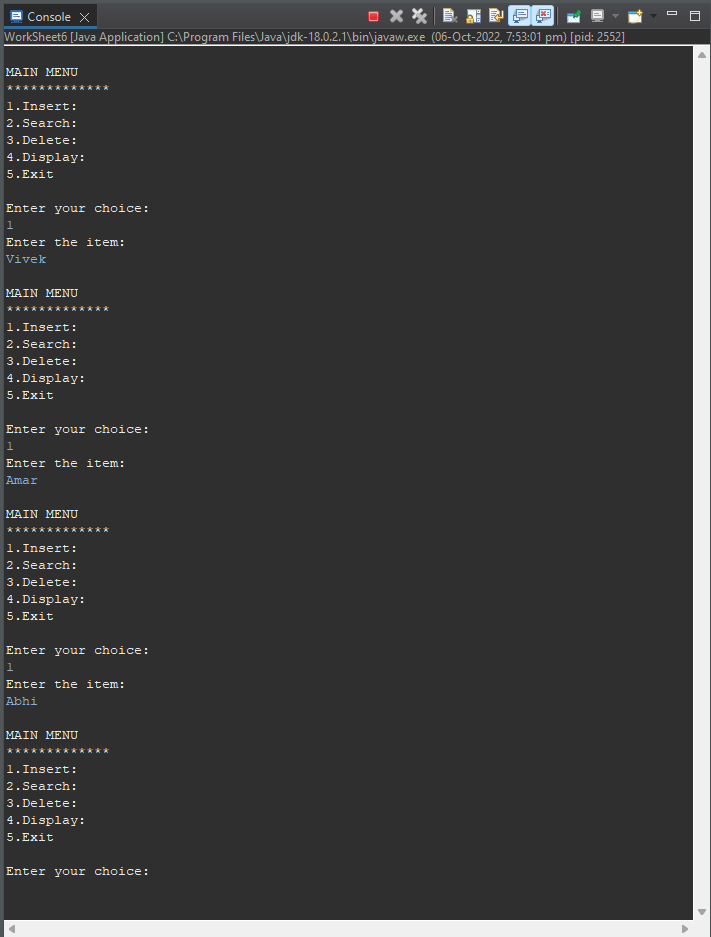
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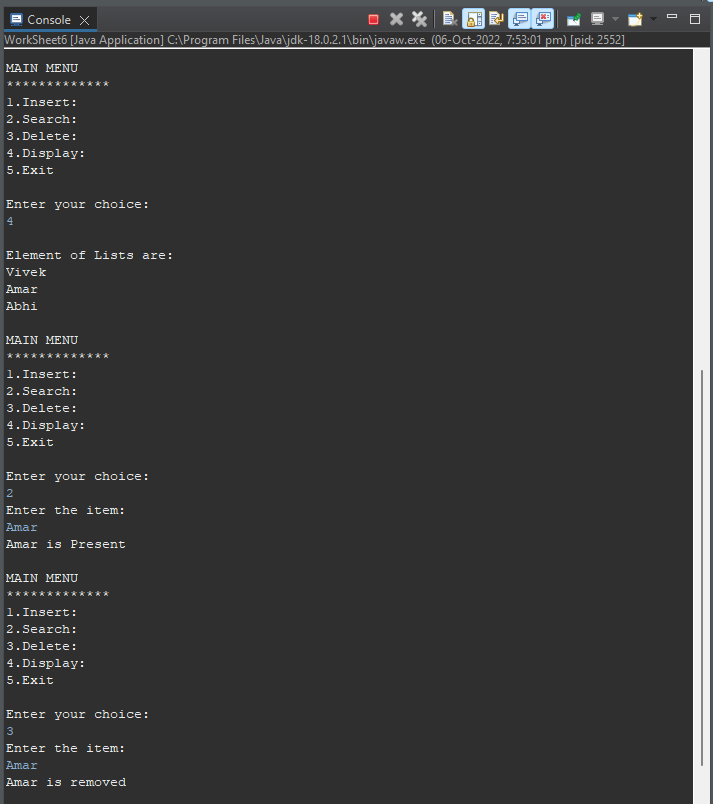
}

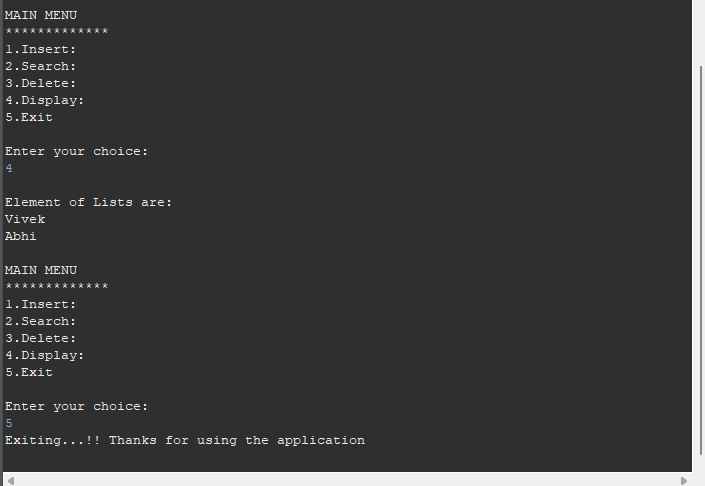
**5. Observations/Discussions/ Complexity Analysis:**

Here we have created the List, and performed all the operation of list such as insertion, searching, deletion, and traversal.

**6. Result/Output/Writing Summary:**







**Learning outcomes (What I have learnt):**

**1.** Learnt while loop.

**2.** List manipulation concept understood.

**3.** Created list and performed all operation of list.

**4.** Learnt the concept of switch concept.

**5.** Learnt concept of inbuilt function in list.

**Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. | Worksheet completion including writing learning objectives/Outcomes.  (To be submitted at the end of the day). |  |  |
| 2. | Post-Lab Quiz Result. |  |  |
| 3. | Student Engagement in  Simulation/Demonstration/Performance and Controls/Pre-Lab Questions. |  |  |
|  | Signature of Faculty (with Date): | Total Marks Obtained: |  |