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UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name:

Subject Code: 20CSP 321

Submitted to:

Er. Kirat Kaur

Submitted by:

Name: Rajiv Paul

UID:20BCS1812

Section:20BCS_WM-702

Group: A

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Ex. No	List of Experiments	Date	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Remarks/ Signature
1.1	Create an application to save the employees information using arrays	16/8/22					
1.2	Design and implement a simple inventory control system for a small video rental store	26/8/22					
1.3	Calculate interest based on the type of the account and the status of the account holder. The rates of interest changes according to the amount (greater than or less than 1 crore), age of account holder (General or Senior citizen) and number of days if the type of account is FD or RD.	6/9/22					
2.1	Create a program to set view of Keys from Java Hashtable.	16/9/22					
2.2	Write a program to perform the basic operations like insert delete display and search in list.List contains string object items where the operation are to be performed.	30/9/22					
2.3							
2.4							
3.1							
3.2							
3.3							

Experiment 2.3

Student Name: Rajiv Paul **UID:**20BCS1812
Branch:CSE **Section/Group:**702A
Semester: 5th **Date of Performance:** 30/9/2022
Subject Name:PBLJ Lab **Subject Code:** 20CSP 321

1. **Aim:**
To perform the basic operations like insert delete display and search in list.List contains string object items where the operation are to be performed.

2. Requirements:

Software:

IntelliJ IDEA, JDK,MacOs,Netbeans

Hardware:

Macbook(Laptop)

Ram:4GB(Minimum)

Processor: M1

3. Code:

```
package com.PBLJ;
import java.util.*;

//  Write a program to perform the basic operations like insert delete display and search in list.
//  List contains string object items where the operation are to be performed

public class Project6 {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        ArrayList<String> arlt = new ArrayList<>(20);

//         Inserting

        for (int i = 0; i < 5; i++) {
            System.out.print("Enter the elements:");
            arlt.add(in.nextLine());
        }
```

```
        System.out.println("The array is "+arlt);
  //      Search
        System.out.print("Enter the value to search: ");
        boolean A = arlt.contains(in.nextLine());

        if (A) {
            System.out.println("Elemnet found!!");
        } else{
            System.out.println("Element Not found!!");
        }

//        Remove

        System.out.print("Enter the value to remove: ");
        String val= in.nextLine();
        boolean B = arlt.contains(val);



        if (B){
            arlt.remove(String.valueOf(val));
            System.out.println("Element is removed successfully !!\n");
            System.out.println("The new array is "+arlt);

        }
        else {
            System.out.println("Element Not Found!! \n");
            System.out.println("The array is "+arlt);
        }


    }
}
```

4. Output:

```
Enter the elements:Rajiv
Enter the elements:Divyam
Enter the elements:Shivraj
Enter the elements:Kunal
Enter the elements:Julius
[Rajiv, Divyam, Shivraj, Kunal, Julius]
Enter the value to search:
Divyam
Elemnet found!!
Enter the value to remove:
Kunal
Element is removed successfully !!
[Rajiv, Divyam, Shivraj, Julius]
```

Learning outcomes (What I have learnt):

1. Learnt about ArrayList .

2. Learnt how to implement ArrayList .

3. Learnt how to implement ArrayList methods.

4. Leant how to perform insertion , deletion using ArrayList.

5. Learnt how to perform searching in ArrayList.