OBJECT ORIENTED PROGRAMMING LAB

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Roll No: 55

Batch: B

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Experiment No.: 21

Aim

Maintain a list of Strings using ArrayList from collection framework, perform built-in operations.

Program

```java
import java.util.ArrayList;
import java.util.Collections;
public class List {

        public static void main(String[] args) {
                ArrayList<String> sc = new ArrayList<String>();
                sc.add("HP");
                sc.add("Acer");
                sc.add("Dell");
                sc.add("Apple");
                sc.add("Lenovo");
                System.out.println("The items in ArrayList are:");
                for(String laptop:sc){
                        System.out.println(""+laptop);
                }
                sc.remove("Apple");
        sc.remove(2);
        System.out.println("\nArrayList after remove operation:");
```

```java
        for(String laptop:sc) {

            System.out.println(laptop);

        }


        Collections.sort(sc);

        System.out.println("\nArrayList after sorting:");

        for (String laptop: sc) {

            System.out.println(laptop);

        }

        sc.add(2, "AGB");

        System.out.println("\nModified ArrayList:"+sc)

        System.out.println("\nObject at index 2:"+sc.get(1));

        System.out.println("\nSize of the ArrayList:"+sc.size());

        System.out.println("\nHP is in the ArrayList :"+sc.contains("HP"));

         System.out.println("\nAsus is in the ArrayList :"+sc.contains("Asus"));

         sc.clear();

        System.out.println("\nArrayList after clear method:"+sc);

    }


}
```

Output Screenshot

```
D:\VYSHNAVI>javac List.java

D:\VYSHNAVI>java List
The items in ArrayList are:
HP
Acer
Dell
Apple
Lenovo

ArrayList after remove operation:
HP
Acer
Lenovo

ArrayList after sorting:
Acer
HP
Lenovo

Modified ArrayList:[Acer, HP, AGB, Lenovo]

Object at index 2:HP

Size of the ArrayList:4

HP is in the ArrayList :true

Asus is in the ArrayList :false

ArrayList after clear method:[]
```