```
package demo;
import java.util.Arrays;
public class SortArrayOfString {
       public static void main(String[] args) {
               String[] arr= {"now","is","the","time","good"};
               System.out.println("The Orginal Array:"+Arrays.toString(arr));
               for(int i=0;i<arr.length;i++) {</pre>
                      for(int j=i+1;j<arr.length;j++) {
                              if(arr[i].compareTo(arr[j+1])>0) {
                                      String temp=arr[j];
                                      arr[j]=arr[j+1];
                                      arr[j+1]=temp;
                              }
                       }
               }
               System.out.println("The Sorted Array:"+Arrays.toString(arr));
       }
}
```

```
package demo;
import java.util.Scanner;
public class OccurenceOfCharacter {
  public static void main(String[] args) {
     Scanner a=new Scanner(System.in);
     int[] count=new int[256];
     String \ s{=}a.nextLine().replaceAll("\backslash \s","");
     for(int i=0;i<s.length();i++){
       count[(int)s.charAt(i)]++;
     }
     for(int i=0;i<count.length;i++){
       if(count[i]!=0){
          System.out.println((char)i+":"+count[i]);
        }
     }
     a.close();
  }
}
```

```
package demo;
import java.util.Scanner;
import java.util.ArrayList;
public class Lab_java{
  static ArrayList<String> a=new ArrayList<String>();
  static Scanner s=new Scanner(System.in);
  public static void main(String[] args){
    add();
    insert();
    search();
    startwith();
  public static void add(){
     System.out.println("Enter the element to add:");
     String ad=s.next();
     a.add(ad);
     System.out.println(a);
  }
  public static void insert(){
     System.out.println("Enter the position to insert");
     int p=s.nextInt();
     System.out.println("Enter the element to insert");
     String el=s.next();
     a.add(p,el);
     System.out.println(a);
```

```
}
  public static void search(){
     System.out.println("Enter the element to search");
     String se=s.next();
     int i=a.indexOf(se);
     if(i>-1)
       System.out.println("The element:"+ se+" found at index:"+i);
     else
       System.out.println("The element "+se+"not found in list");
  }
  public static void startwith(){
     System.out.println("Enter the letter to search all string");
     String l=s.next();
     for(String i:a){
       if(i.startsWith(l))
       System.out.println(i);
     }
  }
}
[02-09-2024 19:29] Deepak NCET: java Lab 4
package demo;
import java.util.ArrayList;
import java.util.Scanner;
```

```
public class Lab_java {
  public static void main(String[] args) {
     ArrayList<String> namesList = new ArrayList<String>();
     Scanner scanner = new Scanner(System.in);
    for (int i = 1; i \le 3; i++) {
       System.out.print("Enter name " + i + ": ");
       String name = scanner.nextLine();
       namesList.add(name);
     }
     System.out.println("Number of elements in the ArrayList: " + namesList.size());
    for (int i = 4; i \le 5; i++) {
       System.out.print("Enter name " + i + ": ");
       String name = scanner.nextLine();
       namesList.add(name);
    }
     System.out.println("Number of elements in the updated ArrayList: " + namesList.size());
```

```
System.out.println("Names in the ArrayList:");
    for (String name : namesList) {
       System.out.println(name);
    }
    System.out.print("Enter a name to remove: ");
    String nameToRemove = scanner.nextLine();
    if (namesList.remove(nameToRemove)) {
       System.out.println("Name removed successfully.");
     } else {
      System.out.println("Name not found in the list.");
    }
    System.out.println("Names in the updated ArrayList:");
    for (String name : namesList) {
       System.out.println(name);
     }
    scanner.close();
}
```

\ java Lab 5

```
package demo;
import java.util.ArrayList;
import java.util.Scanner;
public class Lab_5 {
  public static void main(String[] args) {
    Scanner s=new Scanner(System.in);
     ArrayList<String> a=new ArrayList<>();
    a.add(0,"Element 1");
    a.add(0,"Element 2");
    a.add("Element 3");
    a.add("Element 4");
    System.out.println("List before removal:"+a);
     System.out.println("The fist element of List:"+a.remove(0));
     System.out.println("The last element of List:"+a.remove(a.size()-1));
     System.out.println("List after remove:"+a);
    s.close();
  }
}
```

```
package demo;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Iterator;
import java.util.ListIterator;
public class Lab_6 {
  public static void main(String[] args) {
ArrayList<Integer> a = new ArrayList<>(Arrays.asList(1, 2, 3, 4));
  Iterator<Integer> i=a.iterator();
  System.out.println("Using Iteration");
  while (i.hasNext())
     System.err.println(i.next());
  ListIterator<Integer> l=a.listIterator();
  System.out.println("Using List Iteration");
  while(l.hasNext())
     System.out.println(l.next());
  System.out.println("Reversed List");
  while (l.hasPrevious())
     System.out.println(l.previous());
  }
}
```

```
package demo;
import java.io.FileWriter;
import java.io.BufferedWriter;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
public class Lab_7{
public static void main(String[] args){
       String file1="C:\\Users\\deepa\\OneDrive\\Desktop\\d1.txt";
       String file2="C:\\Users\\deepa\\OneDrive\\Desktop\\d2.txt";
       String Output="C:\\Users\\deepa\\OneDrive\\Desktop\\d3.txt";
  try{
       BufferedReader buffer1=new BufferedReader(new FileReader(file1));
    String data1="";
    String line;
    while((line=buffer1.readLine())!=null){
       data1+=line+"\n";
     }
    buffer1.close();
    BufferedReader buffer2=new BufferedReader(new FileReader(file2));
    String data2="";
    String line1;
    while((line1=buffer2.readLine())!=null){
    data2+=line1+"\n";
     }
```

```
buffer2.close();
    String merge=data1+data2;
    BufferedWriter writebuffer=new BufferedWriter(new FileWriter(Output));
    writebuffer.write(merge);
    writebuffer.close();
    System.out.println("Merged data written to "+Output);
    System.out.println("Content of the file:");
    BufferedReader mergeBuffer=new BufferedReader(new FileReader(Output));
    String line3;
    while((line3=mergeBuffer.readLine()) != null){
    System.out.println(line3);
    }
    mergeBuffer.close();
    catch(IOException e){
       e.printStackTrace();
: java Lab 8
package demo;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.util.Scanner;
```

}

}

}

```
public class Pratice {
  public static void main(String[] args) {
    // Read a string from the user
    String userInput = getUserInput();
    // Write the string to a byte array
    byte[] byteArray = writeToByteArray(userInput);
    // Read from the byte array and display the content
    readAndDisplayFromByteArray(byteArray);
  }
  private static String getUserInput() {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter a string: ");
    return scanner.nextLine();
  }
  private static byte[] writeToByteArray(String inputString) {
    try (ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream())
{
       byte[] bytes = inputString.getBytes();
       byteArrayOutputStream.write(bytes);
       System.out.println("String has been written to the byte array.");
       return byteArrayOutputStream.toByteArray();
     } catch (IOException e) {
       System.out.println("An error occurred while writing to the byte array: " +
e.getMessage());
```

```
return new byte[0];
    }
  }
  private static void readAndDisplayFromByteArray(byte[] byteArray) {
    try (ByteArrayInputStream byteArrayInputStream = new
ByteArrayInputStream(byteArray)) {
       byte[] buffer = new byte[1024];
       int bytesRead = byteArrayInputStream.read(buffer);
       String content = new String(buffer, 0, bytesRead);
       System.out.println("Content read from the byte array: " + content);
     } catch (IOException e) {
       System.out.println("An error occurred while reading from the byte array: " +
e.getMessage());
     }
  }
}
```