(Day-13 afternoon session)
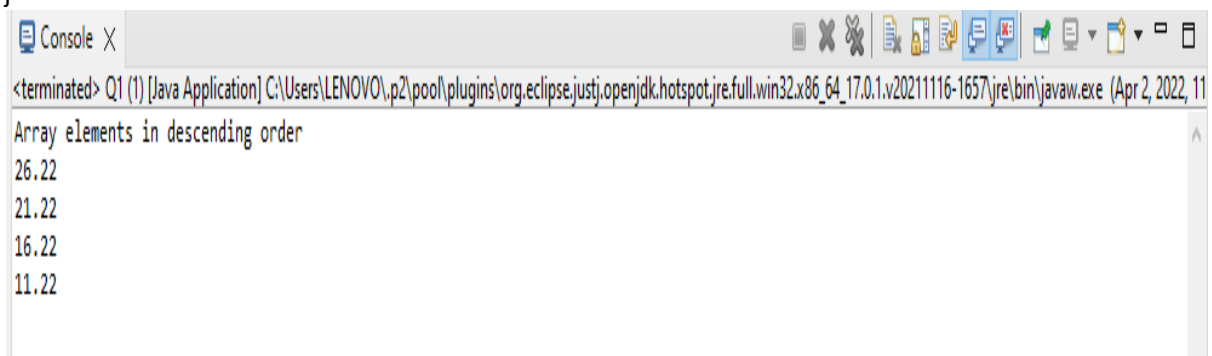1.Write a program to create a arraylist of double element and add the elements.
sort the elements in descending order and print it.

```
package SBA_1;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;

public class Q1 {
        public static void main(String[] args) {
                List<Double> list2=new ArrayList<Double>();
                list2.add(21.22);
                list2.add(11.22);
                list2.add(16.22);
                list2.add(26.22);
                Collections.sort(list2,Collections.reverseOrder());
                System.out.println("Array elements in descending order");
                for(Double number:list2)
                        System.out.println(number);

}
}
```

```
<terminated> Q1 (1) [Java Application] C:\Users\LENOVO\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (Apr 2, 2022, 11
Array elements in descending order
26.22
21.22
16.22
11.22
```

2.Create a arraylist of integers and find the sum and average of the entire list.
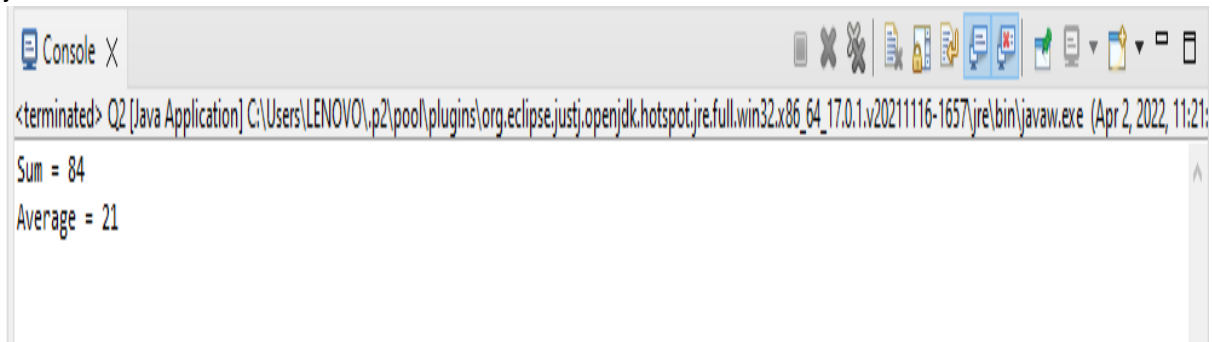
```
package SBA_1;

import java.util.ArrayList;
import java.util.List;

public class Q2 {
        public static void main(String[] args) {
                List<Integer> list=new ArrayList<Integer>();
```

```java
            list.add(21);
            list.add(11);
            list.add(51);
            list.add(1);
            int sum=0;
            for(int i:list)
                    sum=sum+i;
            System.out.println("Sum = "+sum);
            int avg=sum/list.size();
            System.out.println("Average = "+avg);
    }
}
```

3.Create two arraylist of strings to take First_name and Last_name of the students,
and print their whole name.

```java
package SBA_1;

import java.util.ArrayList;
import java.util.Scanner;

public class Q3 {
        public static void main(String[] args) {
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter number of students");
                int n=sc.nextInt();
                ArrayList<String> first_name=new ArrayList<String>();
                ArrayList<String> second_name=new ArrayList<String>();
                for(int i=1;i<=n;i++)
                {
                        System.out.println("Enter first name of student no."+i);
                        first_name.add(sc.next());
                        System.out.println("Enter second name of student no."+i);
                        second_name.add(sc.next());
                }
```

```java
                    for(int i=0;i<n;i++)
                    {
                            System.out.println("Full name of student no."+(i+1)+"=
"+first_name.get(i)+" "+second_name.get(i));
                    }

            }

}
```
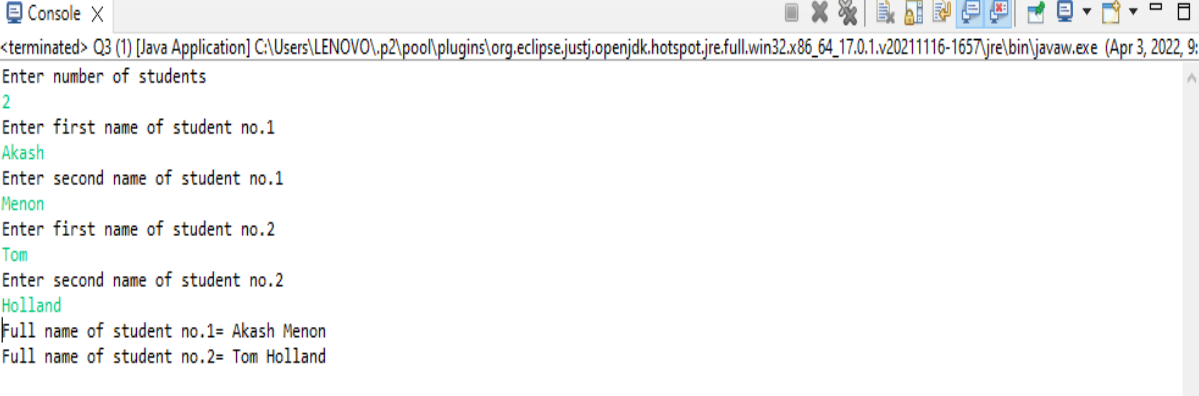
(day-8 assignment)
4.Write a program to check for the occurrence of a particular character in a string and display how many times it has occurred.
note: take the String and the character to be checked as a input from the user.

```java
package SBA_1;

import java.util.Scanner;

public class Q4 {
        public static void main(String[] args) {
                Scanner sc=new Scanner(System.in);
                 System.out.println("enter a string");
                 String s1=sc.nextLine();
                 System.out.println("Enter the character");
                 char ch=sc.next().charAt(0);
                 System.out.println("You have entered: "+ch);
                 int count=0;
                 for(int i=0;i<s1.length();i++)
                 {
                         if(s1.charAt(i)==ch)
                                 count++;
```
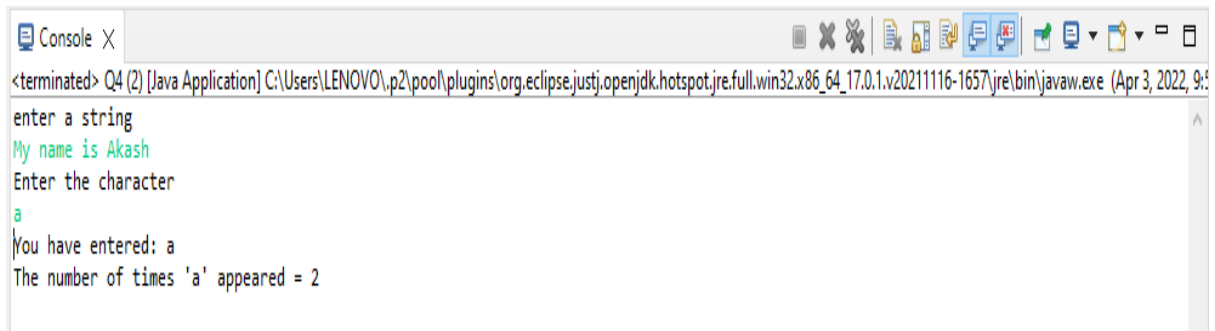
```
                }
                if (count==0)
                        System.out.println("Character is not found");
                else
                        System.out.println("The number of times '"+ch+"' appeared =
"+count);
        }

}
```

```
enter a string
My name is Akash
Enter the character
a
You have entered: a
The number of times 'a' appeared = 2
```

5.Write a program to take an input of a string with multiple words and convert
it into a string array,
and check if every element of that array is a Palindrome.
Note: Palindrome is a word which when reversed also is the same.

package SBA_1;

import java.util.Scanner;

public class Q5 {

        public static void main(String[] args) {

                System.out.println("Enter a String");

                        Scanner sc=new Scanner(System.in);

                                String str=sc.nextLine();

                String strArray[] = str.split(" ");

                System.out.println("String : " + str);

                System.out.print("String array : [");
```

```java
for (int i = 0; i < strArray.length; i++) {

    System.out.print(strArray[i] + ", ");

}

System.out.print("]"+"\n");

String word;

for(int i=0;i<strArray.length;i++)

{

    word=strArray[i];

    char[] str1=new char[word.length()];

    int count=0;

    for(int j=word.length()-1;j>=0;j--)

    {

            str1[count]=word.charAt(j);

            count++;

    }

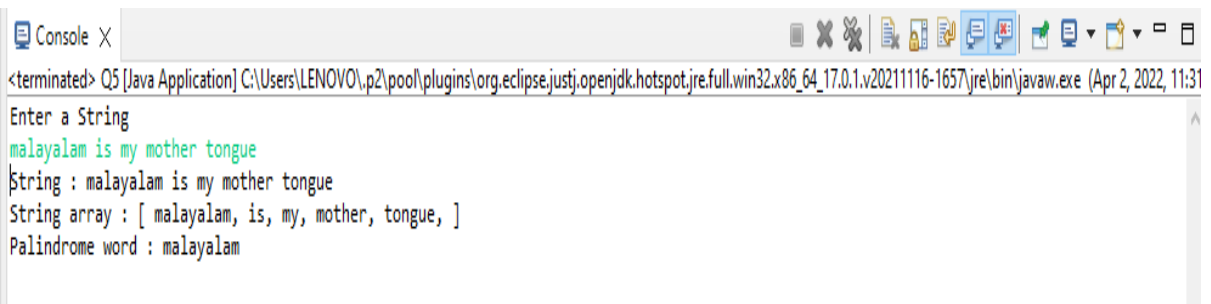    String word2=new String(str1);

    if(word.equals(word2))

    {

    B   System.out.println("Palindrome word : "+word);

    }

} } }
```

```
Enter a String
malayalam is my mother tongue
String : malayalam is my mother tongue
String array : [ malayalam, is, my, mother, tongue, ]
Palindrome word : malayalam
```