

(Day-13 afternoon session)

1. Write a program to create an arraylist of double element and add the elements. sort the elements in descending order and print it.

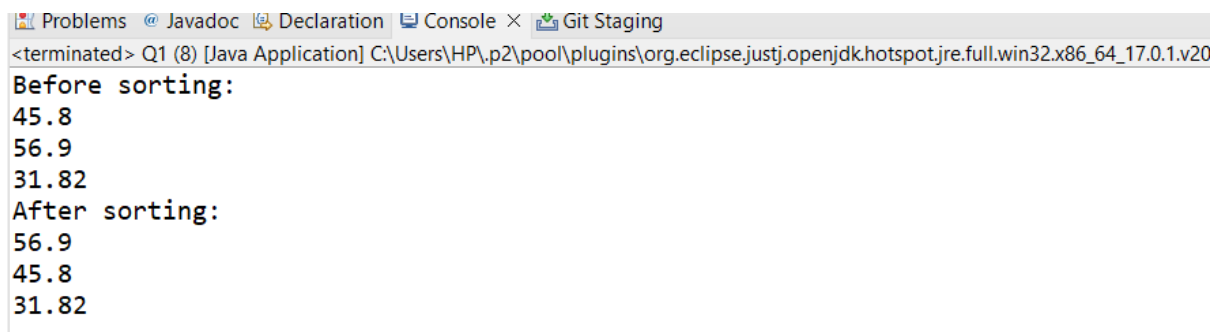
CODE:

```
package sba1;

import java.util.*;
import java.util.Collections;

public class Q1 {
    public static void main(String[] args) {
        ArrayList<Double>list =new ArrayList<Double>();
        list.add(45.8);
        list.add(56.90);
        list.add(31.82);
        System.out.println("Before sorting:");
        for(double newlist:list)
        {
            System.out.println(newlist);
        }
        Collections.sort(list,Collections.reverseOrder());
        System.out.println("After sorting:");
        for(double newlist:list)
        {
            System.out.println(newlist);
        }
    }
}
```

OUTPUT:



```
<terminated> Q1 (8) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20
Before sorting:
45.8
56.9
31.82
After sorting:
56.9
45.8
31.82
```

2.Create a arraylist of integers and find the sum and average of the entire list.

CODE:

```
package sba1;

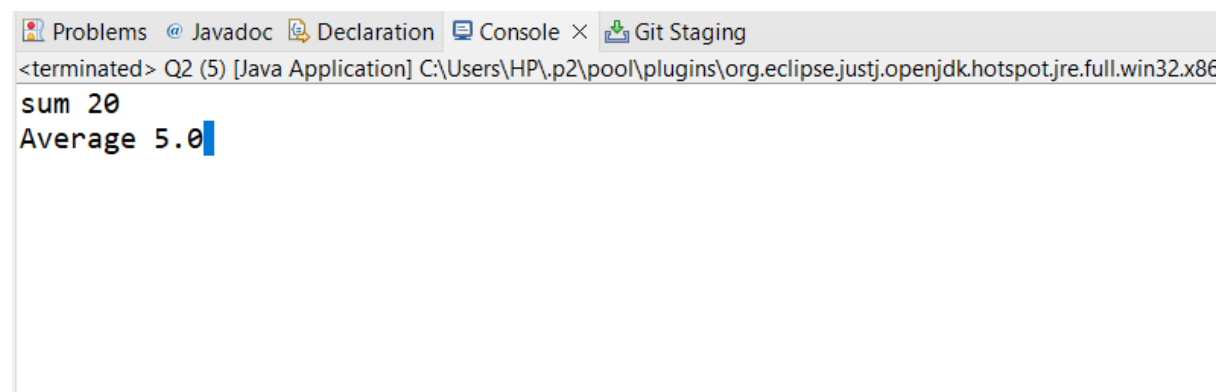
import java.util.ArrayList;

public class Q2 {

    public static void main(String[] args) {
        ArrayList<Integer> sum = new ArrayList<Integer>();
        sum.add(2);
        sum.add(8);
        sum.add(4);
        sum.add(6);
        int total=0;
        double avrg;
        for(int i=0;i<sum.size();i++)

            total= total+sum.get(i);
            avrg= total/sum.size();
            System.out.println("sum "+total);
            System.out.println("Average "+avrg);
    }
}
```

OUTPUT:

A screenshot of an IDE's console window. The top bar shows tabs for 'Problems', 'Javadoc', 'Declaration', 'Console', and 'Git Staging'. The 'Console' tab is active, displaying the output of a Java application. The text in the console reads: '<terminated> Q2 (5) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86' followed by two lines of output: 'sum 20' and 'Average 5.0'. The cursor is at the end of the second line.

```
<terminated> Q2 (5) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
sum 20
Average 5.0
```

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

CODE:

```
package sba1;

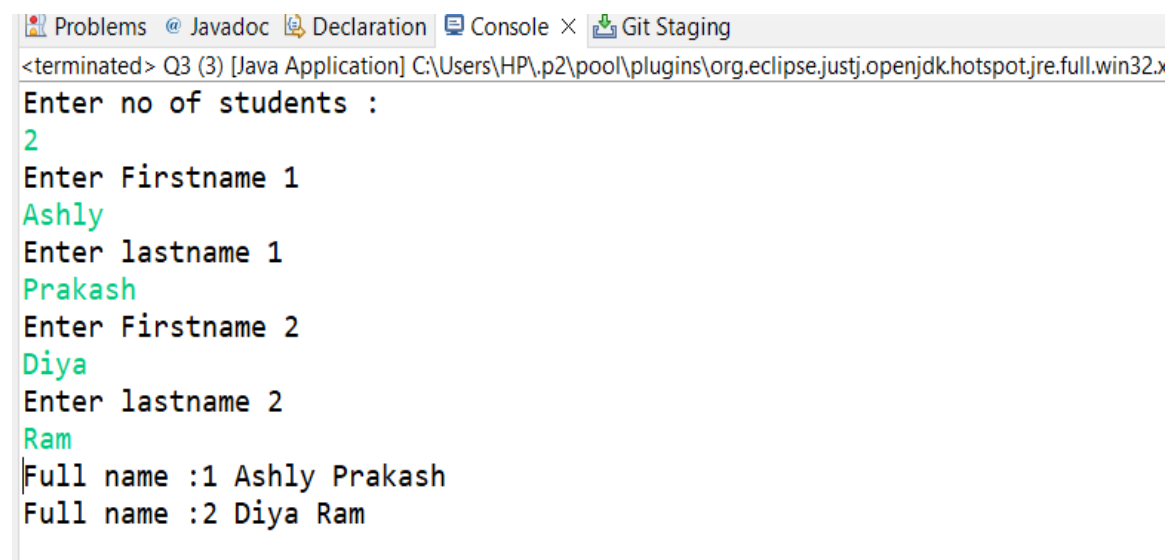
import java.util.ArrayList;

public class Q2 {

    public static void main(String[] args) {
        ArrayList<Integer> sum = new ArrayList<Integer>();
        sum.add(2);
        sum.add(8);
        sum.add(4);
        sum.add(6);
        int total=0;
        double avrg;
        for(int i=0;i<sum.size();i++)

            total= total+sum.get(i);
            avrg= total/sum.size();
            System.out.println("sum "+total);
            System.out.println("Average "+avrg);
    }
}
```

OUTPUT:



```
Problems @ Javadoc Declaration Console × Git Staging
<terminated> Q3 (3) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x
Enter no of students :
2
Enter Firstname 1
Ashly
Enter lastname 1
Prakash
Enter Firstname 2
Diya
Enter lastname 2
Ram
Full name :1 Ashly Prakash
Full name :2 Diya Ram
```

(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.

CODE:

```
package sba1;

import java.util.Scanner;

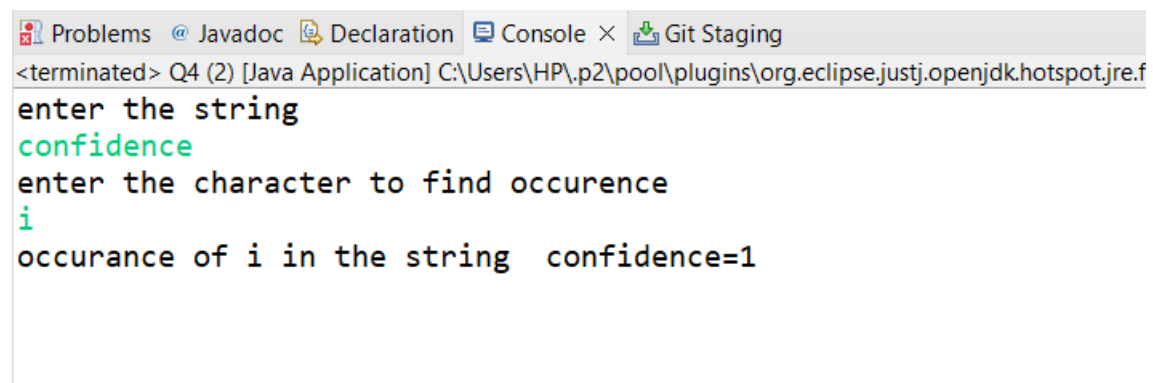
public class Q4 {

    public static void main(String[] args) {
        int count=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the string ");
        String s=sc.next();
        System.out.println("enter the character to find occurrence");
        char s2=sc.next().charAt(0);
        for( int i=0;i<s.length();i++) {
            if(s.charAt(i)==s2) {

                count++;

            }
        }
        System.out.println("occurrence of " +s2+" in the string " +s+
"=" +count);
    }
}
```

OUTPUT:



```
<terminated> Q4 (2) [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.f
enter the string
confidence
enter the character to find occurrence
i
occurrence of i in the string confidence=1
```

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.

CODE:

```
package sba1;
import java.util.Scanner;
public class Q5 {
    public static boolean checkpalindrome(String str)
    {
        int len =str.length();
        for(int i=0;i<len/2;i++) {
            if(str.charAt(i)!=str.charAt(len-i-1))
                return false;
        }
        return true;
    }
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the sentence");
        String str=sc.nextLine();
        String[] arr=str.split(" ");
        int n=arr.length;
        for(int i=0;i<n;i++)
            if(Q5.checkpalindrome(arr[i])) {
                System.out.println(arr[i]+" is palindrome");
            }
            else
                System.out.println(arr[i]+" is not a
palindrome");
    }
}
```

OUTPUT:

Problems @ Javadoc Declaration Console × Git Staging
<terminated> Q5 (2) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.w

```
enter the sentence
malayalam is my language
malayalam is palindrome
is is not a palindrome
my is not a palindrome
language is not a palindrome
```