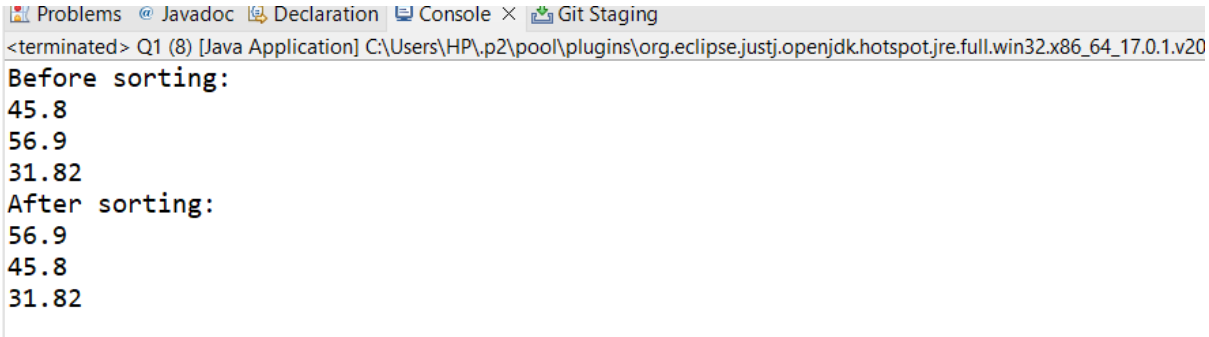
(Day-13 afternoon session)
1.Write a program to create an arraylist of double element and add the elements. sort the elements in descending order and print it.

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:

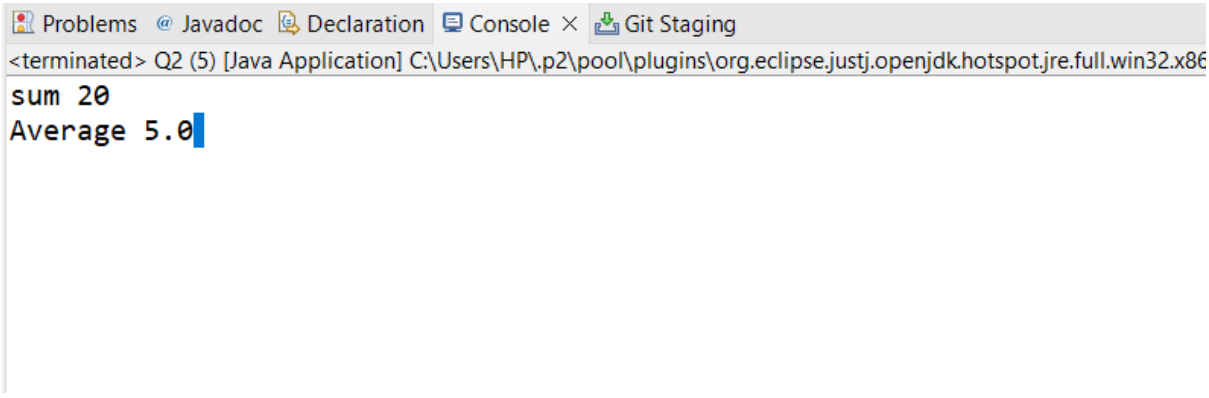


2.Create a arraylist of integers and find the sum and average of the entire list.

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:

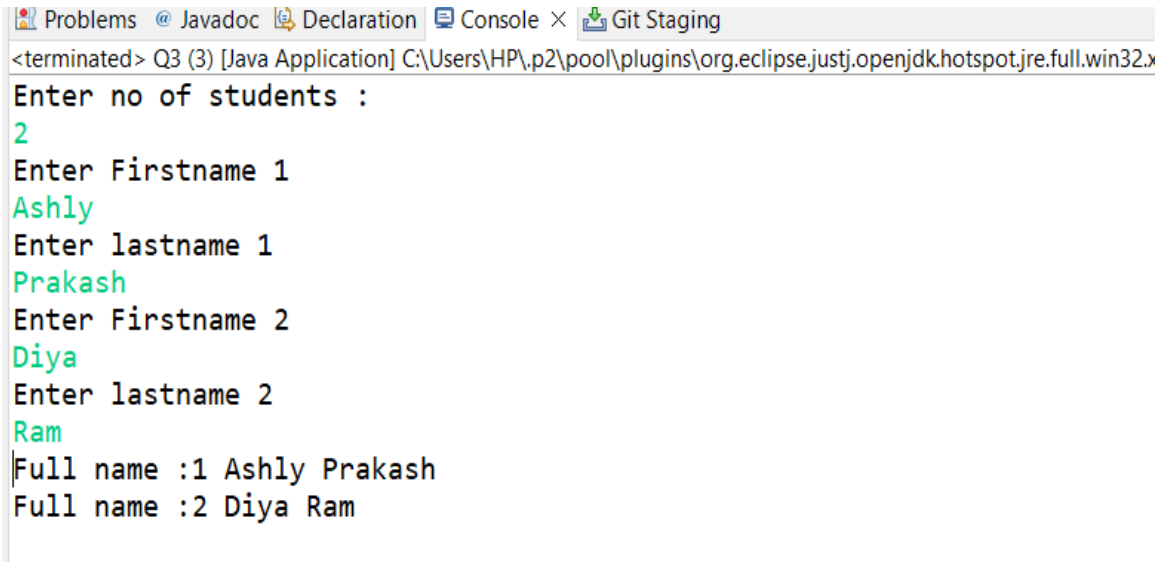


3.Create two arraylist of strings to take First_name and Last_name of the students, and print their whole name.

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:



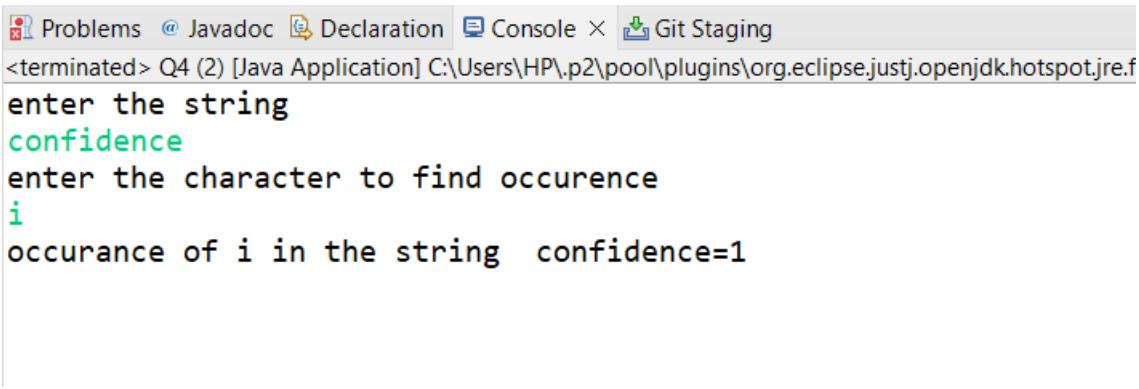
(day-8 assignment)

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 occurence");
	char s2=sc.next().charAt(0);
	for( int i=0;i<s.length();i++) {
	 if(s.charAt(i)==s2) {

		count++;

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

OUTPUT:

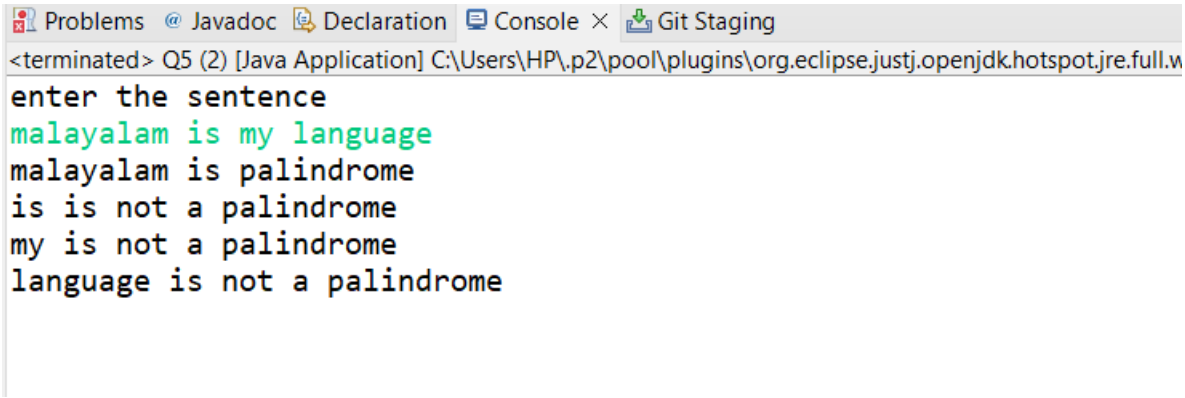


5.Write a program to take an input of a string with multiple words and convert it into a string array, and check if every element of that array is a Palindrome.
Note: Palindrome is a word which when reversed also is the same.

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