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

//code

import java.util.\*;

import java.util.Collections;

public class SBA1\_1 { public static void main(String[] args) {

ArrayListlist =new ArrayList(); list.add(36.50);

list.add(19.10);

list.add(58.88);

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

import java.util.\*;

public class SBA1\_2 {

public static void main(String[] args) {

List < Integer > list = new ArrayList < Integer > ();

list.add(10);

list.add(90);

list.add(30);

list.add(40);

list.add(70);

list.add(100);

list.add(60);

System.out.println("Elements in List : " + list);

Integer a[] = new Integer[list.size()];

list.toArray(a);

System.out.print("Elements in List : ");

for (Integer obj : a) {

System.out.print(obj + " "); }

int sum = sumOfArray(a, a.length - 1);

System.out.println(); // Print the sum returned above

System.out.println("Sum of elements : " + sum);

int avg; avg=sum/2;

System.out.println("Average:"+ avg); }

public static int sumOfArray(Integer[] a, int n) {

if (n == 0) return a[n];

else return a[n]+sumOfArray(a, n - 1); }

}

//output

3.Create two arraylist of strings to take First\_name and Last\_name of the students, and print their whole name.

//code

import java.util.\*;

public class SBA1\_3 {

public static void main(String[] args) {

List firstName = new ArrayList();

List lastName = new ArrayList();

String string1 = "ANUPRIYA";

firstName.add(string1);

String string2 = "ANUPRIYA";

firstName.add(string2); // /////inserting last name

String string3 = "ROCKY";

lastName.add(string3);

String string4 = "ROBIN";

lastName.add(string4);

Iterator iterator = firstName.iterator();

Iterator iterator1 = lastName.iterator();

List name = new ArrayList();

while (iterator.hasNext()&& iterator1.hasNext() ) {

name.add(iterator.next()+" "+iterator1.next()); }

Iterator iterator11 = name.iterator();

while(iterator11.hasNext())

System.out.println(iterator11.next()); }

}

//output

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

import java.util.\*;

public class SBA1\_4 {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String s1;

int count =0;

System.out.println(" Enter the string");

s1=sc.nextLine();

//s1=s1.replace(" ","");

System.out.println("Enter the element to be searched with count");

char c = sc.next().charAt(0);

for(int i=0;

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

import java.util.Scanner;

public class SBA1\_5 {

public static boolean checkpalindrome(String str) {

int len =str.length();

for(int i=0;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

if(SBA1\_5.checkpalindrome(arr[i])) {

System.out.println(arr[i]+" is palindrome"); }

else

System.out.println(arr[i]+" is not a palindrome"); }

}

//output