DAY 4

1)

import java.util.Scanner;

import java.util.Arrays;

public class Main

{

public static void main(String[] args) {

Scanner sc =new Scanner(System.in);

String s=sc.next();

StringBuffer str=new StringBuffer();

str.append(s);

StringBuffer revstr =new StringBuffer(str);

revstr.reverse();

if(revstr.toString().equals(str.toString())){

System.out.print("pallindrome");

}

else{

System.out.print(" Notpallindrome");

}

}

}

2) import java.util.Scanner;

import java.util.Arrays;

public class Main

{

public static void main(String[] args) {

Scanner sc =new Scanner(System.in);

String s=sc.nextLine();

int cnt=0;

int vow=0;

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

char ch=s.charAt(i);

if(ch=='A'|| ch=='E'||ch=='I'||ch=='O'||ch=='U'||ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'){

vow++;

}

else if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')){

cnt++;

}

}

System.out.print("Vowels: "+vow);

System.out.print("consonant: "+cnt);

}

}

4)

import java.util.Scanner;

import java.util.Arrays;

public class Main

{

public static void main(String[] args) {

Scanner sc =new Scanner(System.in);

String s=sc.next();

StringBuilder revstr=new StringBuilder(s);

revstr.reverse();

System.out.print(revstr);

}

}

3)

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.next();

String result = "";

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

char ch = s.charAt(i);

if (result.indexOf(ch) == -1) {

result += ch;

}

}

System.out.println("After removing duplicates: " + result);

}

}

8) import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.next();

String st="";

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

char ch = s.charAt(i);

if(ch>='a'&&ch<='z'){

st+= Character.toUpperCase(ch);

}

else if(ch>='A'&&ch<='Z'){

st+=Character.toLowerCase(ch);

}

}

System.out.println(st);

}

}

5)

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.nextLine();

String[] w = s.split(" ");

String res = "";

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

if (w[i].length() > 0) {

char c = Character.toUpperCase(w[i].charAt(0));

res += c + w[i].substring(1) + " ";

}

}

System.out.println(res.trim());

}

}

6)

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s = sc.nextLine().toLowerCase().replaceAll("[^a-z ]", ""); ;

int cnt=0;

String[] arr=s.split(" ");

String g=sc.next().toLowerCase();

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

if(g.equals(arr[i])){

cnt++;

}

}

System.out.println(cnt);

}

}

7) import java.util.Scanner;

import java.util.Arrays;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String s1 = sc.nextLine();

String s2 = sc.nextLine();

if (s1.length() != s2.length()) {

System.out.println("Not Anagrams");

return;

}

char[] arr1 = s1.toCharArray();

char[] arr2 = s2.toCharArray();

Arrays.sort(arr1);

Arrays.sort(arr2);

boolean isAnagram = true;

for (int i = 0; i < arr1.length; i++) {

if (arr1[i] != arr2[i]) {

isAnagram = false;

break;

}

}

if (isAnagram) {

System.out.println("Anagrams");

} else {

System.out.println("Not Anagrams");

}

}

}