DAY-30

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1. count the number of vowels and consonents from the given string string --> hello

EXAMPLE:

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import java.util.\*;

class Demo

{

public static void main(String[] args)

{

int vcount = 0,ccount=0;

Scanner sc = new Scanner(System.in);

System.out.println("ENTER THE STRING:");

String str = sc.nextLine();

str = str.toLowerCase();

int len = str.length();

for (int i=0;i<=len-1;i++)

{

if(str.charAt(i)=='a'||str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u')

{

vcount++;

}

else if(str.charAt(i)>'a'&& str.charAt(i)<'z')

{

ccount++;

}

}

System.out.println("VOWEL COUNT IS :"+vcount);

System.out.println("CONSONENT COUNT IS :"+ccount);

}

}

OUTPUT:

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ENTER THE STRING:

hello

VOWEL COUNT IS :2

CONSONENT COUNT IS :3

2. reverse the words present in given string. sentence --> welcome to studyonline

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EXAMPLE:

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class Demo1

{

public static void main(String[] args)

{

String s1 = "welcome to studyonline";

String words[]=s1.split(" ");

String reverseString="";

for(String w:words)

{

String reverseword="";

for (int i=w.length()-1;i>=0;i--)

{

reverseword=reverseword+w.charAt(i);

}

reverseString=reverseString+reverseword+" ";

}

System.out.println("the reversed string is: "+reverseString);

}

}

OUTPUT:

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the reversed string is: emoclew ot enilnoyduts

3.Identify the repeated characters in the given string

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// hashmap

import java.util.\*;

class Demo2

{

public static void main(String[] args)

{

String s1 = "sagarram";

char a[] = s1.toCharArray();

Map<Character,Integer> hm = new HashMap<Character,Integer>();

for(char ch:a)

{

if(hm.containsKey(ch))

{

hm.put(ch,hm.get(ch)+1);

//hm.put(s,hm.get(value)+1);

}

else

{

hm.put(ch,1);

}

}

Set<Character>Keys = hm.keySet();

for(char ch:Keys)

{

if (hm.get(ch)>1)

{

System.out.println("Character "+ch+" repeated "+hm.get(ch)+" times ");

}

}

}

}

OUTPUT:

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Character a repeated 3 times

Character r repeated 2 times

4. Remove the duplicate characters from the given string.

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EXAMPLE:

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import java.util.\*;

class Demo2

{

public static void main(String[] args)

{

String s1 = "sagarram";

String ns = "";

char a[] = s1.toCharArray();

HashSet<Character> hs = new HashSet<Character>();

for(char ch:a)

{

if(!hs.contains(ch))

{

hs.add(ch);

ns=ns+ch;

}

else

{

System.out.println("Duplicate characters removed is :"+ch);

}

}

System.out.println("New string after deleting the duplicate charater is: "+ns);

}

}

OUTPUT:

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Duplicate characters removed is :a

Duplicate characters removed is :r

Duplicate characters removed is :a

New string after deleting the duplicate charater is: sagrm

5.FINDING THE FREQUENCY OF CHARACTERS IN A GIVEN STRING

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EXAMPLE:

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class Demo3

{

public static void main(String[] args)

{

String s1 = "sagar ram";

int orglen = s1.length();//8

int remlen = s1.replace("a","").length();//5

int rep = orglen-remlen;

System.out.println("character a has occurred "+rep+" times");

}

}

OUTPUT:

-------

character a has occurred 3 times.

6.ADD A SUB-STRING TO A GIVEN STRING

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EXAMPLE:

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class Demo3

{

public static void main(String[] args)

{

String s1 = "Lockdown2.0";

//System.out.println(s1.substring(4));

//System.out.println(s1.substring(0,4));

String word = "version";

int index = 8;

System.out.println(s1.substring(0,index)+word+s1.substring(index));

}

}

OUTPUT:

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Lockdownversion2.0

7.PRINT THE UNICODE OF A GIVEN STRING

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EXAMPLE:

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class Demo3

{

public static void main(String[] args)

{

String s1= "Studyonline";

int u1= s1.codePointAt(1);

int u2= s1.codePointAt(3);

System.out.println("unicode value at index 1 is :"+u1);

System.out.println("unicode value at index 3 is :"+u2);

}

}

OUTPUT:

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unicode value at index 1 is :116

unicode value at index 3 is :100

ASSIGNMENTS:

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1. Swapping Strings without using Third variable

2. remove the white spaces in the given string

3. number of words in a given string