**Assignment**

**Date: 29/03/2022**

**Submission Date:**

Given : 10101111100010101000000101Q1) Count how many times the number of 1 is followed by number 0 in the given string.

(Sub String in String 1)

class Test

{

public static void main(String[] args)

{

String s="10101111100010101000000101";

int j=0;

for(int i=0; i<s.length()-1;i++)

{

if(s.charAt(i)=='1' && s.charAt(i+1)=='0')

j++;

}

System.out.println(j);

}

}

(Sub String in String 2)

class Test

{

public static void main(String[] args)

{

String s="10101111100010101000000101";

String ss="10";

int j=0, Index=0;

while (Index != -1)

{

Index = s.indexOf(ss,Index);

if( Index != -1)

{

j++;

Index += 2;// could write ss.length() insted of 2

}

}

System.out.println(j);

}

}

Q2) How many times 101 is repeated in the string.

(Sub String in String 3)

class Test

{

public static void main(String[] args)

{

String s="10101111100010101000000101";

int j=0;

for(int i=0; i<s.length()-2;i++)

{

if(s.charAt(i)=='1' && s.charAt(i+1)=='0'&& s.charAt(i+2)=='1')

j++;

}

System.out.println(j);

}

}

(Sub String in String 4)

class Test

{

public static void main(String[] args)

{

String s="10101111100010101000000101";

String ss="101";

int j=0, Index=0;

while (Index != -1)

{

Index = s.indexOf(ss,Index);

if( Index != -1)

{

j++;

Index += 2;// could write ss.length() insted of 2

}

}

System.out.println(j);

}

}

Q3) WAP to find out whether the string is palindrome or not.

(Palindrome 2)

import java.util.\*;

class Test

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter a string: ");

String given=sc.nextLine();

String rev="";

char arr[]=given.toCharArray();

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

rev+=arr[i];

System.out.println("reverse: "+rev);

if(given.equalsIgnoreCase(rev))

System.out.println("Palindrome");

else

System.out.println("NOT: Palindrome");

}

}

Q4) WAP to reverse the string.

(Reverse 3)

import java.util.\*;

class Test

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter a string: ");

String given=sc.nextLine();

String rev="";

char arr[]=given.toCharArray();

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

rev+=arr[i];

System.out.println("reverse: "+rev);

}

}

Q5) WAP to print words in reverse.

i/p: ab cd ef gh ij kl

o/p: kl ij gh ef cd ab

(Reverse 2)

import java.util.\*;

class Test

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter a string: ");

String given=sc.nextLine();

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

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

System.out.print(arr[i]+" ");

}

}