Date :10-10-2020

Day: Saturday

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Section : A5

Subject : java programming language

Code : CSE18R272

1.Write a program called CountVowelsDigits, which prompts the user for a String, counts the number of vowels (a, e, I, o, u, A, E, I, O, U) and digits (0-9) contained in the string, and prints the counts and the percentages.

Code:

```
Import java.io.*;

Public class MyClass {

   Public static void main(String args[]) throws IOException {

      BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));

      String s=br.readLine();

      Int dcount=0,vcount=0;

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

      {


If(s.charAt(i)=='A'||s.charAt(i)=='E'||s.charAt(i)=='I'||s.charAt(i)=='O'
||s.charAt(i)=='U'||s.charAt(i)=='a'||s.charAt(i)=='e'||s.charAt(i)=='I'||
s.charAt(i)=='o'||s.charAt(i)=='u')

          Vcount+=1;

        Else

          If (Character.isDigit(s.charAt(i)))

            Dcount+=1;
```

```
        }

    System.out.println("no.of vowels : "+vcount);
    System.out.println("no.of digits : "+dcount);
    System.out.println("length : "+s.length());

    System.out.println("percentage of vowels: "+((float)(vcount/
(float)s.length())*100));
    System.out.println("percentage of digits:
"+((float)(dcount/(float)s.length())*100));

    }
}
```

2.Write a program called ReverseString, which prompts user for a String, and prints the reverse of the String by extracting and processing each character.

Code:

```
Import java.io.*;
Public class MyClass {
   Public static void main(String args[]) throws IOException {
      BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
      String s=br.readLine();
      MyClass mc=new MyClass();
      String r=mc.ReverseString(s);

      System.out.println("Given String is : "+s);
      System.out.println("Reverse String is : "+r);
   }

   String ReverseString(String s)
   {
      String rev="";
      For(int i=s.length()-1;i>=0;i--)
       Rev=rev+s.charAt(i);
      Return rev;
   }
}
```

3.Write a Java Program that reads a line of integers, and then displays each integer, and the sum of all the integers.

Code:

```
Import java.io.*;
Import java.util.*;
Public class MyClass {
   Public static void main(String args[]) throws IOException {
      BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
      String s=br.readLine();
      StringTokenizer st =new StringTokenizer(s,”,”);
      String token;
      Int sum=0;
      While(st.hasMoreTokens())
      {
         Token =st.nextToken();
         Sum+=Integer.parseInt(token);

      }
       System.out.println(“sum =”+sum);
```

```
    }
}
```

4.Write a Java program to return the sum of the digits present in the given string. If there is no digits the sum return is 0.

Code:

```
Import java.io.*;
Public class MyClass {
    Public static void main(String args[]) throws IOException {
        BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
        String s=br.readLine();

        Int sum=0;
        For(int i=0;i<s.length();i++)
        {
            If(Character.isDigit(s.charAt(i)))
            {
```

```
            Sum+=Integer.parseInt(Character.toString(s.charAt(i)));

        }
    }

    System.out.println("sum is  : "+sum);

  }
}
```

5.Write a Java program to return a new string using every characters of even positions from a given string.

Code:

```
Import java.io.*;
Import java.lang.*;
Import java.util.*;
Public class Main
{
    Public static void main(String[] args) throws IOException {
```

```
        BufferedReader br  = new BufferedReader(new
InputStreamReader(System.in));
            String s = br.readLine();
    String even="";
    For(int I =0;i<s.length();i+=2){
       Even+=s.charAt(i);
    }
    System.out.println("the even string :  "+ even);

     }

}
```

6.Write a Java program that checks whether a given string is palindrome or not.

code:

```
import java.io.*;
import java.lang.*;
import java.util.*;
public class Main
{
```

```
        public static void main(String[] args) throws IOException {
            BufferedReader br  = new BufferedReader(new
InputStreamReader(System.in));
                String line = br.readLine();

       StringBuffer sb=new StringBuffer(line);

       StringBuffer rev=new StringBuffer(line);
        if(rev.compareTo(sb.reverse())==0)
          System.out.println(line +" is palindrome");
        else
          System.out.println(line+"is not palindrome");


       }

}
```