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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");

}

}