CSE18R272-LAB MANUAL

KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

COMPUTER SCIENCE AND EDUCATION

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Course Name : Java Programming

Course Code : CSE18R272

***PROGRAM 1:***

import java.io.\*;

public class MyClass {

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

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

String s=br.readLine();

intdcount=0,vcount=0;

for(inti=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("number of vowels:"+vcount);

System.out.println("number of digits:"+dcount);

System.out.println("number of characters:"+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));

}

}

OUTPUT:

This is Java Programming

number of vowels:7

number of digits:0

number of characters:24

percentage of vowels29.166666

percentage of digits0.0

***PROGRAM 2:***

import java.io.\*;

public class MyClass {

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

BufferedReaderbr=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(inti=s.length()-1;i>=0;i--)

rev=rev+s.charAt(i);

return rev;

}

}

***OUTPUT:***

This is Java Programming

Given String is : This is Java Programming

Reverse String is : gnimmargorPavaJsisihT

PROGRAM 3:

import java.io.\*;

import java.lang.\*;

import java.util.\*;

public class Main

{

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

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

String line = br.readLine();

int n;

int sum = 0;

StringTokenizerst = new StringTokenizer(line,"");

while (st.hasMoreTokens()) {

String token = st.nextToken();

sum+= Integer.parseInt(token);

}

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

}

}

***OUTPUT:***

24 87 90 209 103

the sum is 513

***PROGRAM 4:***

import java.io.\*;

import java.lang.\*;

import java.util.\*;

public class Main

{

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

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

String line = br.readLine();

int sum=0;

String even="";

for(inti =0;i<line.length();i++){

if(Character.isDigit(line.charAt(i)))

sum += Integer.parseInt(Character.toString(line.charAt(i)));

}

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

}

}

***OUTPUT:***

Akanksha2119

the sum is 6

***PROGRAM 5:***

import java.io.\*;

import java.lang.\*;

import java.util.\*;

public class Main

{

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

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

String line = br.readLine();

int sum=0;

String even="";

for(inti =0;i<line.length();i++){

if(Character.isDigit(line.charAt(i)))

sum += Integer.parseInt(Character.toString(line.charAt(i)));

}

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

for(inti =0;i<line.length();i+=2){

even+=line.charAt(i);

}

System.out.println("the even string is "+ even);

}

}

***OUTPUT:***

MANOJ2119

the sum is 6

the even string is MANO21

***PROGRAM 7:***

import java.io.\*;

import java.lang.\*;

import java.util.\*;

public class Main

{

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

        StringBuffersb=new StringBuffer(line);

        StringBuffer rev=new StringBuffer(line);

          if(rev.compareTo(sb.reverse())==0)

            System.out.println(line +" is plaindrome");

          else

            System.out.println(line+"is not palindrome");

    }

}

***OUTPUT:***

***MANOJ***

***MANOJ is palindrome***