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package test;

import java.util.Scanner;

public class test5 {

    /*Q.1) Store 2 string in an array eg. ["Car", "Truck",]
        Write a statement having words Car and Truck. Count
occurrence of Car
        and Truck in given paragraph.
        Eg. Input
        I have 2 Car one is Baleno Car and other is Farari
Car but Truck is used for
        transportation.
        Car occurred 3 time Truck Occurred 1 time*/

    public static void que1(String para) {

        String [] words = {"Car","Truck"};
        para = para.toLowerCase();

        for(String word : words) {
            int count =0;
            int index = 0;

            String newWord = word.toLowerCase();

            while((index = para.indexOf(newWord,index)) != -1) {
                count++;
                index = index + newWord.length();
            }
            System.out.println(word + " Occured " + count);
        }

    }

    /*Q.2) Accept a sentence , accept a word and count occurrence
of that word.
    Input: Wel come to CDAC it offers DAC in All CDAC centre.
    Input DAC
    O/P DAC occurred 3 time*/
    public static void que2(String para,String word) {
        word = word.toLowerCase();
        para = para.toLowerCase();

        int count =0;
        int index=0;
    }
}

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        while((index = para.indexOf(word,index))!=-1) {
            count++;
            index = index+word.length();
        }
        System.out.println(word + " Occured " + count);
    }

// Q.3) Accept a name from user and check if it is palindrome or
not
public static void que3(String name) {
    int l = name.length();
    char[] na = name.toCharArray();
    int h = l/2;
    boolean flag = false;

    for(int i=0;i<h;i++) {
        if(na[i] != na[l-1-i]) {
            flag =true;
            break;
        }
    }
    if(flag)
        System.out.println("Not palindrome");
    else
        System.out.println("Palindrome");
}

// Q.4) Accept a sentence from user and count total number of
words.
public static void que4(String para) {
    int wordCount=0;
    boolean isWord=false;
    int endOfLine = para.length()-1;
    char[] characters = para.toCharArray();
    int l = characters.length;

    for(int i=0;i<l;i++) {
        if(Character.isLetter(characters[i]) && i!=
endOfLine) {
            isWord = true;
        }
        else if(!Character.isLetter(characters[i]) &&
isWord) {
            isWord = false;
            wordCount++;
        }
        else if(Character.isLetter(characters[i]) && i ==
endOfLine) {
            wordCount++;

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        }
    }
    System.out.println(wordCount);

//
}

public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter a paragraph : ");
    String para = sc.nextLine();

//    que1(para);
    String word = "DAC";
//    que2(para,word);

//    System.out.println("Enter name : ");
//    String name = sc.nextLine();

//    que3(name);

    que4(para);

}
}

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