LOGIC SESSION ASSIGNMENT - 5

RONAK V KULKARNI **250844520070**

Q1. 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

CODE

```
//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

import static java.lang.System.out;
import java.util.Scanner;

public class code1_strArr {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);

		out.println("Enter a Paragraph: ");
		String paragraph = sc.nextLine();
		String lowerParagraph = paragraph.toLowerCase();

		String []words = {"Car", "Truck"};

		for(String word : words)
		{
			String lowerWord = word.toLowerCase();
			int count = 0;
			int index = 0;
```

```
                while((index = lowerParagraph.indexOf(lowerWord, index)) != -1)
                {
                      count++;
                      index += word.length();
                }
                out.println(word+" occured for "+count+" times in the paragraph");

          }
     }
}
```

Q2. Accept a sentence , accept a word and count occurrence of that word.
Input: Welcome to CDAC it offers DAC in All CDAC centre.
Input DAC
O/P DAC occurred 3 time.
CODE

```
//Accept a sentence , accept a word and count occurrence of that word.
//Input: Welcome to CDAC it offers DAC in All CDAC centre.
//Input DAC
//O/P DAC occurred 3 time

import static java.lang.System.out;

import java.util.Scanner;

public class code2_WordOccurence {

     public static void main(String[] args) {

          Scanner sc = new Scanner(System.in);

          out.println("Enter Line: ");
          String Line = sc.nextLine();
          String lowerLine = Line.toLowerCase();

          out.println("Enter a Word: ");
          String word = sc.next();

          String lowerWord = word.toLowerCase();
          int count = 0;
          int index = 0;

          while((index = lowerLine.indexOf(lowerWord, index)) != -1)
          {
                count++;
                index += word.length();
          }
          out.println(word+" occured for "+count+" times in the paragraph");
     }
}
```

Q3. Accept a name from user and check if it is palindrome or not

CODE

```java
//Accept a name from user and check if it is palindrome or not

import static java.lang.System.out;

import java.util.Scanner;

public class code3_StrPallindrome {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);

		out.println("Enter a Name: ");
		String Name = sc.next();
		char[] NameArr = Name.toLowerCase().toCharArray();
		boolean isPal = true;

		int len = NameArr.length;

		for(int i = 0; i<len/2; i++)
		{
			if(NameArr[i]!=NameArr[len - 1 - i])
			{
				isPal = false;
				break;
			}
		}
		if(isPal)
		{
			out.println(Name+" is Pallindrome");
		}
		else
		{
			out.println(Name+" is Not a Pallindrome");
		}
	}
}
```

Q4. Accept a sentence from user and count total number of words.

CODE

```java
//Accept a sentence from user and count total number of words.

import static java.lang.System.out;

import java.util.Scanner;

public class code4_CountWords {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		Scanner sc = new Scanner(System.in);

		out.println("Enter Line: ");
		String Line = sc.nextLine();
		char []LineArr = Line.toCharArray();
		int len = Line.length()-1;
		int count = 0;
		boolean isWord = false;

		for(int i = 0; i<=len; i++)
		{
			if(Character.isLetter(LineArr[i]) && (i!=len))
			{
				isWord = true;
			}
			else if(!Character.isLetter(LineArr[i]) && isWord)
			{
				count++;
				isWord = false;
			}
			else if(Character.isLetter(LineArr[i]) && (i==len))
			{
				count++;
			}
		}
		out.println(count+" words were found");
	}
}
```