Q-1

```
public class Question1 {

	public static void countOccurence(String str,String arr[]) {



		for(String string:arr) {
			int index=0;
			int count=0;
			int length=string.length();

			while((index=str.indexOf(string, index))!=-1) {
				count++;
				index+=length;
			}

			System.out.println("Count of word "+string+" is "+count);
		}


	}

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

		String arr[]= {"Car","Truck"};
		String str="I have 2 Car one is Baleno Car and other is Farari
Car but Truck is used for transportation.";

		countOccurence(str,arr);
	}

}
```

Q-2

```
import java.util.Scanner;

public class Question2 {

	public static int countOccurence(String str1,String str2) {
		int len=str2.length();
		int index=0;
		int count=0;

		String paragraph=str1.toLowerCase();
		String word=str2.toLowerCase();

		while((index=paragraph.indexOf(word,index))!=-1) {
			count++;
			index=index+len;
		}

		return count;

	}
```

```
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the sentence");
		String str=sc.nextLine();
		System.out.println("enter the word");
		String word=sc.next();
		int occurence=countOccurence(str,word);
		System.out.println("The word "+word+" ocuurs "+occurence+"
times.");
	}

}
```

Q-3

```
import java.util.Scanner;
public class Question3 {

	public static boolean isPalindrome(String str) {

		String string=str.toLowerCase();

		String cpy="";

		for(int i=string.length()-1;i>=0;i--) {
			cpy+=string.charAt(i);
		}

		if(string.equals(cpy))
			return true;

		return false;

	}

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc=new Scanner(System.in);

		System.out.println("Enter the string");
		String str=sc.next();

		if(isPalindrome(str))
			System.out.println("Given string is palindrome");
		else
			System.out.println("Given string is not palindrome");

	}

}
```

Q-4

```
import java.util.Scanner;
```

```java
public class Question4 {

	public static int countTotalWords(String str) {

		char arr[]=str.toCharArray();
		int endofline=arr.length-1;
		boolean isword=true;
		int count=0;

		for(int i=0;i<arr.length;i++) {

			if(Character.isLetter(arr[i]) && endofline!=i) {
				isword=true;
			}
			else if(!Character.isLetter(arr[i]) && isword) {
				isword=false;
				count++;
			}
			else if(Character.isLetter(arr[i]) && endofline==i) {
				count++;
			}

		}

		return count;

	}

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the sentence");
		String str=sc.nextLine();
		System.out.println(countTotalWords(str));
	}

}
```