

```
1 // to count number of vowels and consonants in a sentence
2 import java.util.Scanner;
3
4 public class SentenceAnalyzer
5 {
6     public static void main() //class starts
7     {
8         Scanner scanner = new Scanner(System.in);
9         System.out.print("Enter a sentence terminated by '.' or '?' : ");
10        String sentence = scanner.nextLine();
11
12        analyzeSentence(sentence);
13
14    } //main ends
15
16    public static void analyzeSentence(String sentence) {
17        String[] words = sentence.split("\s+");
18        System.out.println("Word\tVowels\tConsonants");
19        //to count words and vowels
20        for (String word : words) {
21            String formattedWord = capitalizeFirstLetter(word);
22            int vowels = countVowels(word);
23            int consonants = word.length() - vowels;
24            System.out.println(formattedWord + "\t" + vowels + "\t" + consonants);
25        }
26        //to capitalize the first letter
27        public static String capitalizeFirstLetter(String word) {
28            if (word.length() == 0) {
29                return word;
30            }
31            return Character.toUpperCase(word.charAt(0)) + word.substring(1);
32        }
33        //to count no. of vowels
34        public static int countVowels(String word) {
35            int count = 0;
36            for (int i = 0; i < word.length(); i++) {
37                char ch = Character.toLowerCase(word.charAt(i));
38                if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
39                    count++;
40                }
41            }
42            return count;
43        }
44    } //class ends
```