

```
1 // to count number of vowels and consonants in a sentence
2 import java.util.Scanner;
3
4 public class SentenceAnalyzer                                //class starts
5 {
6     public static void main()                                //main 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        scanner.close();
15    }
16    //main ends
17
18    public static void analyzeSentence(String sentence) {
19        String[] words = sentence.split("\\s+");
20        System.out.println("Word\tVowels\tConsonants");
21        //to count words and vowels
22        for (String word : words) {
23            String formattedWord = capitalizeFirstLetter(word);
24            int vowels = countVowels(word);
25            int consonants = word.length() - vowels;
26            System.out.println(formattedWord + "\t" + vowels + "\t" + consonants);
27        }
28    }
29    //to capitalize the first letter
30    public static String capitalizeFirstLetter(String word) {
31        if (word.length() == 0) {
32            return word;
33        }
34        return Character.toUpperCase(word.charAt(0)) + word.substring(1);
35    }
36    //to count no. of vowels
37    public static int countVowels(String word) {
38        int count = 0;
39        for (int i = 0; i < word.length(); i++) {
40            char ch = Character.toLowerCase(word.charAt(i));
41            if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
42                count++;
43            }
44        }
45        return count;
46    }
47 }
48
49 //class ends
50
```