

```
1 import java.util.*;
2
3 class AssignmentFourTwo
4 {
5     public static void main(String[] args)
6     {
7         while (true)
8         {
9             System.out.println("Enter a sentence:");
10            Scanner keyboard = new Scanner(System.in);
11            String[] sentence = keyboard.nextLine().split(" ");
12
13            if (sentence.isEmpty())
14            {
15                break; // quit the program when user enter an empty string
16            }
17
18            else
19            {
20                HashMap<String, Integer> myWordsCount = new HashMap<String, Integer>();
21
22                for (String s : sentence)
23                {
24                    if (myWordsCount.containsKey(s))
25                        myWordsCount.replace(s, myWordsCount.get(s) + 1);
26                    else
27                        myWordsCount.put(s, 1);
28                }
29
30                // System.out.println(myWordsCount.getValue(s));
31                // Output the all HashMap to check it is correct
32
33                Iterator iterator = myWordsCount.keySet().iterator();
34
35                while (iterator.hasNext())
```

```
36         {
37             String key = iterator.next().toString();
38             Integer value = myWordsCount.get(key);
39
40             System.out.println(key + "\t\t" + value);
41         }
42     }
43 }
44 }
45 }
46
```