```
package Assign_2;
2
3
   import BasicIO.*;
4
5
   public class Process
6
7
    private WordReader read;
8
    private Node list:
9
    private ASCIIDisplayer display;
10
    public Process()
11
12
13
     String words;
     read = new WordReader();
14
     display = new ASCIIDisplayer();
15
16
17
     for(;;)
18
19
       words = read.readWord();
       search (words);
20
21
       if (read.isEOF()) break;
22
23
     sortList();
24
     printOut(list);
25
    }// constructor
    private void search(String words)//this method use to search the actual word
26
27
28
     Node p;
29
     Word word;
30
     p = list;
31
     for(;;)
32
33
       if(p == null) break;
       if (words.equalsIgnoreCase(p.item.getWord()))
34
35
36
         int frequency = p. item.getFreq();
37
         p. item. the Freq (frequency + 1);
38
         return;
39
40
      p = p \cdot next;
41
     word = new Word(words, 1);
42
     if (list = null)
43
44
45
        list = new Node (word, null);
46
47
     else
48
49
       Node q = new Node (word, null);
50
        q.next = list;
51
        list = q;
52
53
    private void sortList() //this method used node to move and save the information
54
55
56
       Node p;
      Node q;
57
58
59
       p = list;
60
       if (list next == null) return;
```

```
62
       while (p != null)
63
64
65
         q = p next;
66
         while (q != null)
67
           if (p. item.getFreq() < q. item.getFreq())</pre>
68
69
70
             Word word = p. item;
71
             p.item = q.item;
72
             q item = word;
73
74
           q = q \cdot next;
75
76
         p = p \cdot next;
77
78
     private void printOut(Node list) {//this method is used to output the data
79
80
      Node p;
       p = list;
81
       while (p != null) {
82
         display.writeInt(p.item.getFreq());
83
         display.writeString(p.item.getWord());
84
85
         display newLine();
86
         p = p \cdot next;
87
88
      display.close();
89
90
    public static void main(String[] args) {Process a = new Process();}
91
92
93 //xinan wang NO.5535802
```