

Question5.java

```
1 import java.io.*;
2 import java.util.*;
3 import java.lang.Math.*;
4
5 public class Question5 {
6
7     private static Scanner in = new Scanner(System.in);
8
9     /*
10      * The LinkedList funtion named getList() throws an exception to check
11      * whether
12      * the file is open. It then opens the file and reads the content using
13      * string
14      * array and adds the string array to a list. The function then returns
15      * the list
16      * to main.
17      */
18     private static LinkedList<String> getList() throws Exception {
19         Scanner read = new Scanner(new File("testQ5.txt"));
20
21         int fSize = 5;
22         String[] word = new String[fSize];
23         String[] symbol = new String[fSize];
24         String[] meaning = new String[fSize];
25
26         // Declaration of linked list
27         LinkedList<String> list = new LinkedList<String>();
28
29         int i = 0;
30         while (read.hasNextLine() && i < fSize) {
31             word[i] = read.next();
32             symbol[i] = read.next().toString();
33             meaning[i] = read.next();
34
35             // storing data from file to list
36             list.add(word[i]);
37             list.add(meaning[i]);
38
39             // to iterate the list
40             i++;
41         }
42         return list;
43     }
44 }
```

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```
40     }
41
42     /*
43      * chkQuery stands for check query, taked the list as the parameter.
44      * checks
45      * whether the query entered by user is in the list and returns the
46      * associated
47      * meaning.
48      */
49     private void chkQuery(LinkedList<String> list) {
50         System.out.print("Query: ");
51         String query = in.next();
52         if (list.contains(query)) {
53             System.out.println("Answer: " + list.get(list.indexOf(query) +
54             1));
55         } else {
56             System.out.println("Query Not Found");
57         }
58     }
59     public static void main(String[] args) throws Exception {
60         Question5 q = new Question5();
61         LinkedList<String> list = q.getList();
62         q.chkQuery(list);
63     }
64 }
```