```
1 import java.util.LinkedList;
3 /*****************
4 * Dalton Nofs
5 * Login ID: nofs5491
 6 * CS-102, Summer 2017
7 * Programming Assignment 3
8 * ListInterface class: High level linked list of terms for *
9 *
        database
10 *********************
11 public class Term implements TermInterface
12 {
13 LinkedList<Course> courseList; // Linked list of courses
                               // The term of the courses
14
    String term;
1.5
    /******************
16
     * Method: Term()
17
18
     * Purpose: default constructor for linkedList obj
19
     * Parameters:
20
                            N/A
     * Returns: void:
21
                            N/A
2.2
23
     Term()
24
25
        courseList = new LinkedList<Course>(); // init an empty
26
        term = null;
27
28
29
     * Method: Term()
30
     * Purpose: constructor passed a string
31
     * Parameters:
32
                             N/A
     * Returns: void:
33
                            N/A
35
     Term(String term)
        courseList = new LinkedList<Course>(); // init a empty
37
        this.term = term;
39
    }
40
     /********************
41
     * Method: isEmpty()
42
43
     * Purpose: check to see if linkedList is empty
44
     * Parameters:
45
     * Returns: boolean: if list is empty
46
     ******
47
48
     public boolean isEmpty()
49
50
        if(courseList.isEmpty())
51
         return true;
52
        return false;
53
54
55
     * Method: size()
56
57
     * Purpose: determine the size of linked list
58
     * Parameters:
59
                            N/A
     * Returns: int:
60
                             the size of the array
61
62
     public int size()
    {
63
64
        return(courseList.size());
65
66
     /*********************
```

1 of 3 8/16/17, 10:24 PM

```
68
       * Method: get()
       * Purpose: get object from linked list at index
 69
 70
 71
       * Parameters: int:
                                index
 72
       * Returns: Object:
                               Object stored in index
 73
 74
      public Course get(int index)
 75
 76
          return(courseList.get(index));
 77
 78
       /***********************
 79
 80
       * Method: add()
 81
       * Purpose: add a object at specified index
 83
      * Parameters:
                    int:
                                 index
 8.5
                    Course:
                                  Object to be placed
 87
      * Returns: void:
     public void add(int index, Course item)
          courseList.add(index, item);
 93
      /******************
 94
 95
       * Method: remove()
      * Purpose: remove index postion and return object removed
 97
 98
      * Notes: calls func that can throw indexoutboundsexception
 99
      * Parameters: int: index
* Returns: Object: Object removed
100
101
102
103
     public Course remove(int index)
104
      {
105
          return(courseList.remove(index));
106
107
108
109
       * Method: removeAll
110
       * Purpose: removes all nodes from array
111
112
      * Parameters:
113
                       N/A
114
       * Returns: void:
115
116
     public void removeAll()
117
118
          courseList.removeAll(courseList);
119
120
       /***********************
121
122
       * Method: append
123
124
       * Purpose: appends the course to the end of the list
125
      * Parameters: Course: co
* Returns: void: N/A
126
                                courseIn
127
128
     public void append(Course courseIn)
129
130
131
          courseList.addLast(courseIn);
132
       /***********************
       * Method: removeAll
```

2 of 3 8/16/17, 10:24 PM

```
C:\Users\B29 Bomber\Desktop\cs-102\Assignment_3\files\turned in\Ter...
```

3 of 3