Lab Goal: This lab was designed to teach you more about a linked list.

Lab Description: Write a program that demonstrates that your BasicList works as intended. BasicList is a single-linked linked list. Each node in BasicList has a data component and a reference to the next node only. Write and test all methods in BasicList. Complete methods to add, remove, get, and search.

PART 1 – Open the BasicList.java file and complete the BasicList class. PART 2 – Use lab15f.java to test your BasicList class.

ListNode – stores a value and a reference to the next node

```
public class ListNode implements Linkable
   private Comparable listNodeValue;
   private ListNode nextListNode;
   public ListNode(){
     listNodeValue = null;
      nextListNode = null;
   public ListNode(Comparable value, ListNode next) {
     listNodeValue=value;
      nextListNode=next;
   public Comparable getValue() {
      return listNodeValue;
   public ListNode getNext(){
      return nextListNode;
   public void setValue(Comparable value) {
      listNodeValue = value;
   public void setNext(Linkable next) {
      nextListNode = (ListNode)next;
```

Sample Data :

```
4 5 6 7 8 9 10 11 12 13
24 75 86 37 82 94 111 82 43
0 4 5 2 1 4 6
```

Sample Output: