CSC112 – Spring 2021 Lab #7 Gradesheet

NAME:

Note: Do not grade work submitted with compiler errors. Code with compiler errors is late, and must be fixed by the student before we will grade it.

1. main method in Main class (15 points - 5points each)
   * 1. ArrayList is a class member
     2. reflects big logic
     3. calls methods
2. Input File processed in separate Main method (18 points)
   * 1. read the name of the file or hard coded it
     2. Open FileReader wrap in Scanner
     3. try-catch associated with open
     4. UseDelimiter(",") or any string parser or the substring and indexof
     5. while (scanner detects input available)
        1. scan each item as a string
        2. try convert numerical data (sepal-length,sepal-width,petal-length,petal-width) catch use default value or convert it into number later
        3. grab rest of line for the speciesiv. add new Iris(....) to ArrayList

(f) close file

1. Class Iris (12 points - 3points each )
   * 1. Include all data members (sepal-length,sepal-width,petal-length,petalwidth, species) with the right data types
     2. toString method
     3. compareTo method
     4. isLessThan method

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1. InsertionSort Method for LinkedList (10 points)
2. BinarySearch Method for LinkedList (10 points)
3. InsertionSort Method for ArrayList (10 points)
4. BinarySearch Method for ArrayList (10 points)
5. Time complexity analysis (15 points – 5 point pieces)
   1. a paragraph to analyze the results using Big O and the executiontime
   2. a graph for LinkedList
   3. a graph for ArrayList
6. Readibility (0=OK/-5=Needs More/-10=Offensive)

Comments: Great Work!

Overall: 100 / 100