Gebze Technical University
Computer Engineering

CSE 222 - 2018 Spring

HOMEWORK X REPORT

EDA BAHRIOGLU
131044055

Course Assistant:

INTRODUCTION

1.1 Problem Definition

The aim of this study is to create a program with linked list structure by using OOP principles. This program contains the applications of a machine learning experiment. The connections between the experiments are provided with days. There are more than one day and experiment. These experiments can be grouped so that there are more than one experiment in the same day. The connection of the experiments using various data, such as start and end time, is provided with nodes. This structure provides great convenience unlike arraylist in the event of any insertion event..

1.2 System Requirements

The system consists of a simple linked list structure that controls the insertion and subtraction nodes of the connection nodes between the experiments. We have 5 data to be used for the connections first..

Setup: string is a type. Try to tell us the setup status.
Day: is a int type . The links between the dates should be determined according to the days.
Time : is is a string type. show the start time.
Complete : is a boolean type. give information about the completion status of the experiment.
Accuracy: is a type float It make control valid of experiments.

There must be two classes as Experiment and ExperimentaList which we have to have for system structure.Experiment is used as the type of data and the list of data is stored in the above .ExperimentList is an iterable classt from the iterable interface where all the operations between the tests are done. It should contain the iterator method.It must be perform the following tasks.

1. addExp: should be able to add the test node to the end of the day.
2. removeExp: should deleted an experiment from the given index.
3. removeDay: delete all experiments from the given day.
4.getExp: You should take an experiment from the given position and index

5.setExp: change an experiment taken from parameter

6.listEXp: List all experiments and display them on the screen

7.orderDay: Sort the experiments by their accuracy, but the list should not change

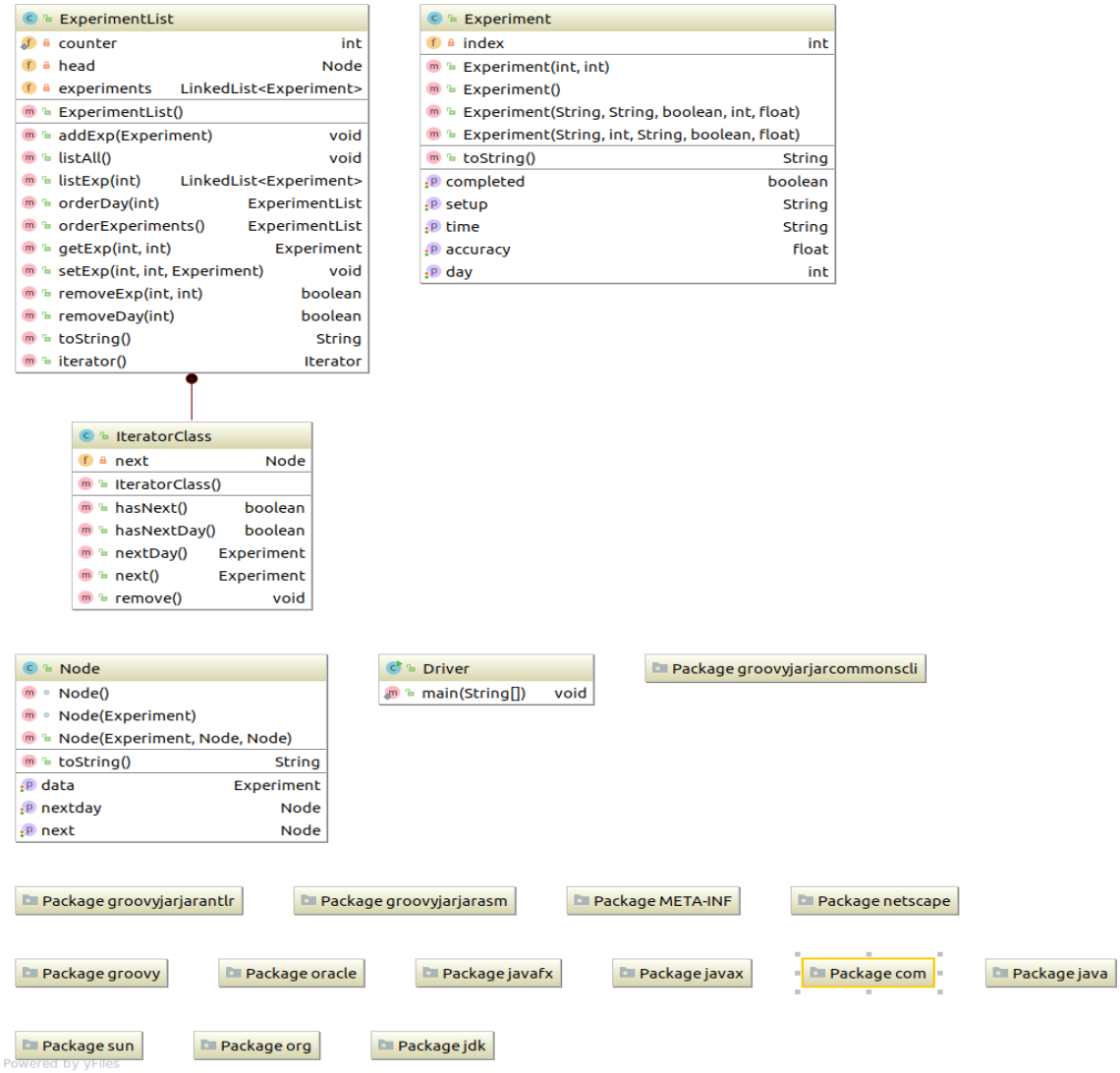
8.orderExperimets: Sort the tests according to their accuracy, but the list should change.

In addition, the program for our own Node class I and Iterator class is available. Iterable class is called with the iterator method.

These methods should be testable for the entire list in Driver class

METHOD

2.1 Class Diagrams



2.2 Use Case Diagrams

Add use case diagrams if required.

2.3 Other Diagrams (optional)

I have not another diagrams.

2.4 Problem Solution Approach

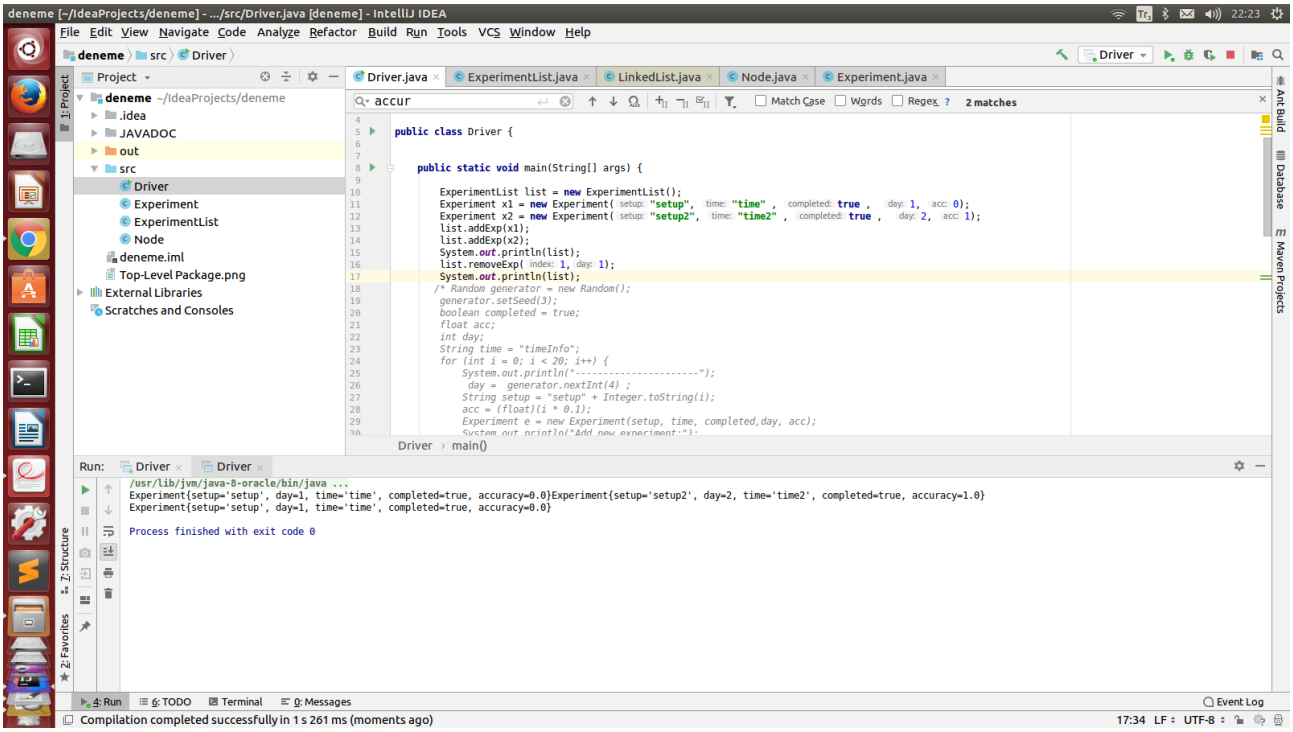
I tried not to go beyond the onject oriented principles in problem solving.In order to prevent complexity, I applied all the necessary classes and tried not to use inner class.

RESULT

3.1 Test Cases

3.2 Running Results

Basicly tests add and remove node.



Your tesr is following: