**Anusha Poojary (002114479)**

**Assignment 2**

Link to the assignment’s repository -

<https://github.com/AnushaPoojaryNEU/INFO6205-ProgramsAndAlgorithms>  
  
**Tasks performed**

* Updated code for missing methods in Timer and InsertionSort classes.
* Successfully ran the unit tests for Timer and InsertionSort classes after updating the code.
* Created a new java class InsertionSortBenchmark to test the timings of insertion sort class and deduce a result. Path for it - *edu/neu/coe/info6205/sort/elementary/InsertionSortBenchmark.java*
* Ran tests for random, ordered and half ordered arrays. Recorded output for different values of n doubling it each time and plotted graphs for each scenario.

**Link for observations recorded -** [Insertionsort assignment](https://docs.google.com/spreadsheets/d/16wIW2UvZH_M3MIU9jNm0tZPGHaKm9uiHP1ttBxg_Jj0/edit?usp=sharing)

**Chart

Description automatically generated**

**Screenshots for Unit tests ran for BenchmarkTest , Timer and InsertionSort classes**

-> BenchmarkTest unit tests

Graphical user interface, text, application

Description automatically generated

-> Timer unit tests

Graphical user interface, text, application

Description automatically generated

-> InsertionSort unit tests  
Graphical user interface, text, application

Description automatically generated