**Program Structures and Algorithms**

**Spring 2023(SEC 8)**

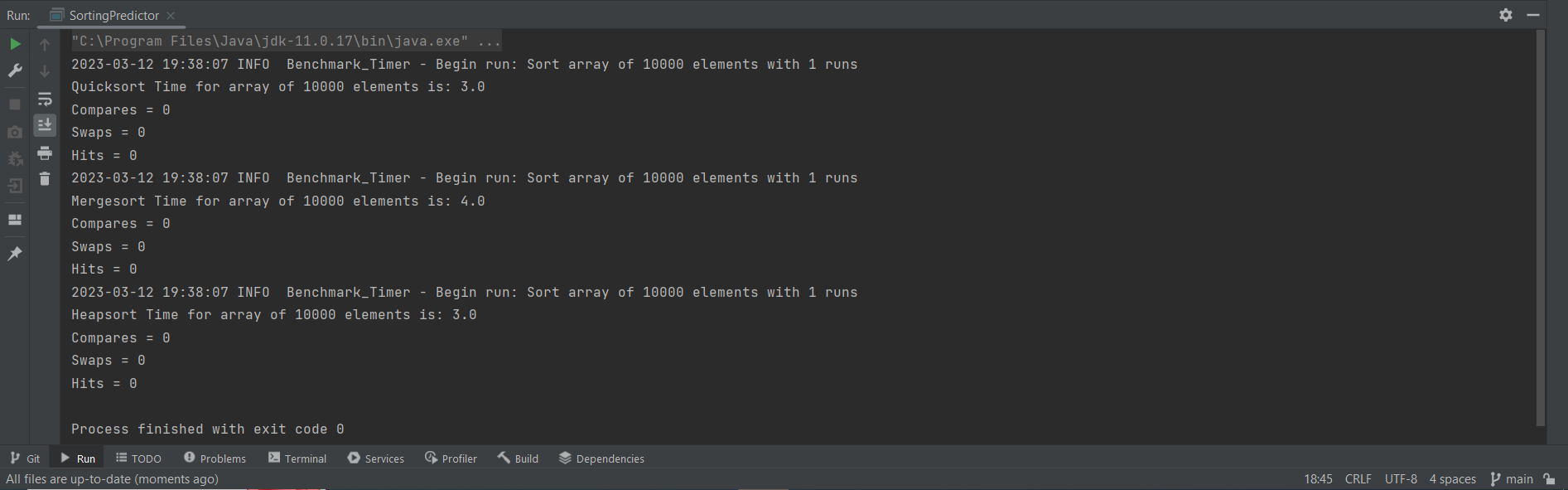
**NAME: Anurag Nandre**

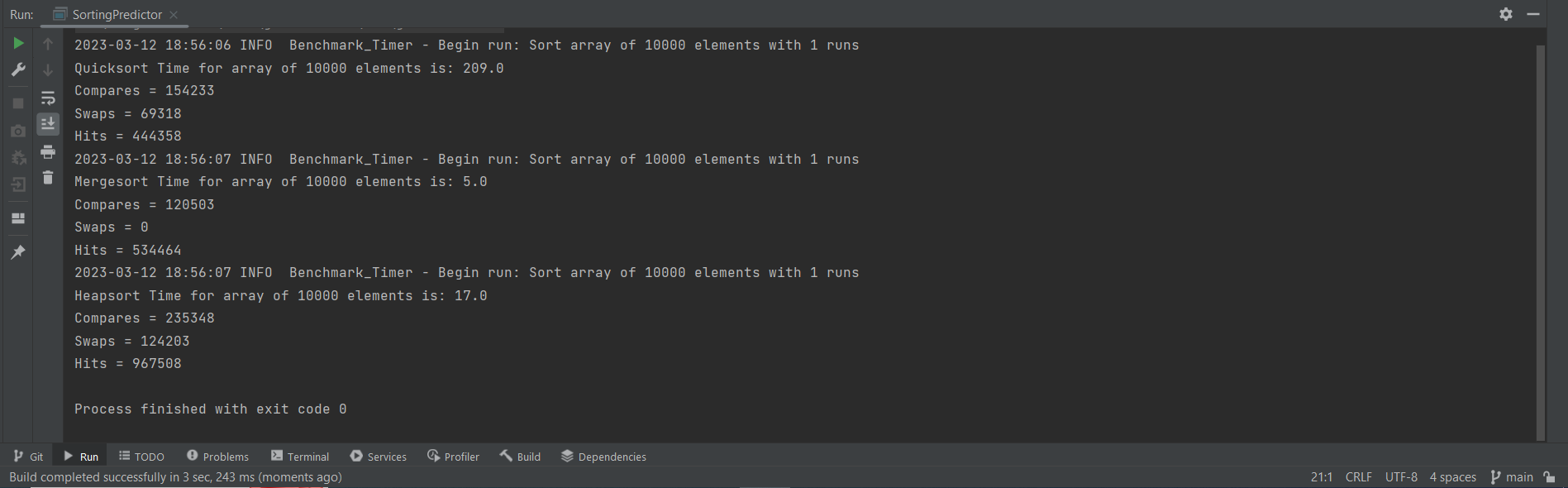
**NUID: 002785735**

**Task:** To find the best predictor of total execution time for different sorting algorithms.

**Relationship Conclusion:** Fromthe graphs and values we can conclude that hits and compares are both important predictors of the total execution time for a sorting algorithm.

**Evidence to support that conclusion:** Swaps cannot be a predictor of the execution time as for merge sort the number of swaps is always 0.





Text

Description automatically generated

**Graphical Representation:**

Graphical user interface, chart

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, application, table, Excel

Description automatically generated

Graphical user interface, application, table, Excel

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