**Program Structures and Algorithms**

**Spring 2023(SEC 8)**

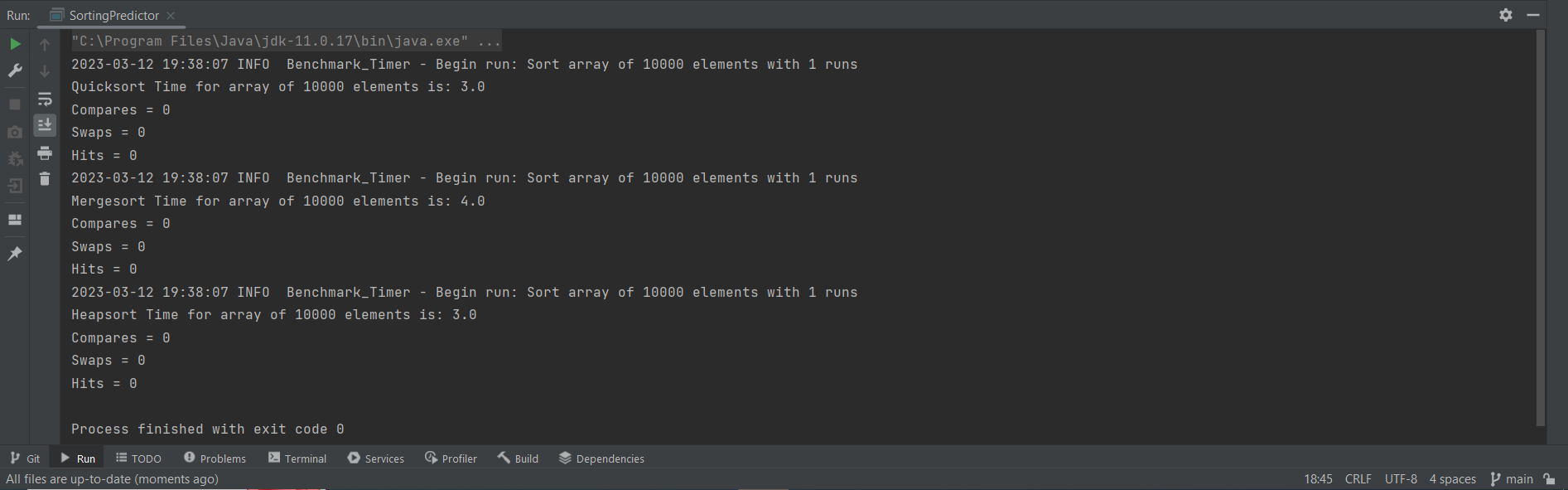
**NAME: Anurag Nandre**

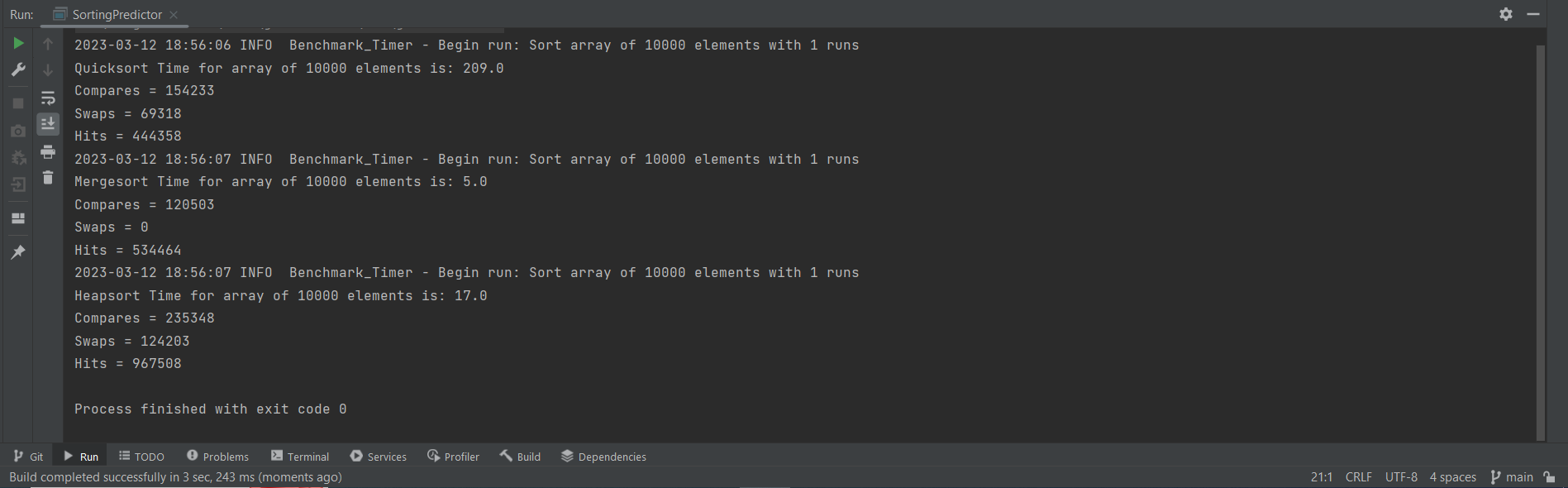
**NUID: 002785735**

**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.





**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

Description automatically generated