CS2023 - Data Structures and Algorithms In-class Lab Exercise

Week 4

You are required to answer the below questions and submit a PDF to the submission link provided under this week lab section before end of the session time (no extensions will be provided). You can either write / type your answers, but either way your answers should be readable.

Question

• Implement Recursive-Merge Sort algorithm.

- Implement Iterative-Merge Sort algorithm (non-recursive).
 Use the following link for non-recursive merge sort: https://www.baeldung.com/cs/non-recursive-merge-sort
- Compare the time between iterative and non-iterative merge sort implementation.
- Plot the time graph for iterative and non-iterative merge sort.
- Upload the answers as a PDF file named, "In<no>_IndexNO.pdf"