CSE-5311-004
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IDE USED : Jetbeans community edition pycharm 2021.1
Programming Language Used : Python

Steps to execute the program

1. Extract all the files
2. Open the files in the Pycharm
3. Run the newmain.py file
4. Enter the inputs in the console
5. We can observe the all the sorting results, run time and the graph comparing run time of all the sorting methods

Files
1. **newmain.py:** This is the main file where we imported all the sorting methods from the respective sorting files.
2. **heapSort.py:** It contains the methods to perform Heap sort.
3. **newquickSort.py:** It contains the methods to perform Quick Sort.
4. **quickUsingMedian:** It contains the methods to perform Quick Sort using 3 medians
5. **insertionSort.py:** It contains the methods to perform Insertion Sort
6. **bubbleSort.py:** It contains the methods to perform Bubble Sort
7. **newmerge.py:** It contains the methods to perform Merge Sort.
8. **Report.pdf:** It contains the detailed information about the sorting algorithms, their outputs and graphs to comapare the efficiency of different sorting methods..