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DAA Project
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Instruction to run the project

There are four files in the project folder,

1. Sorting_algorithms.py (implementation of all the algorithms)
2. Sorting_Algorithms_gui.py (GUI of the algorithms)
3. Sadashiva_Project_document.pdf (Documentation of the project)
4. README.pdf

Sorting_algorithms.py file has only implementation of the algorithms. We need to run
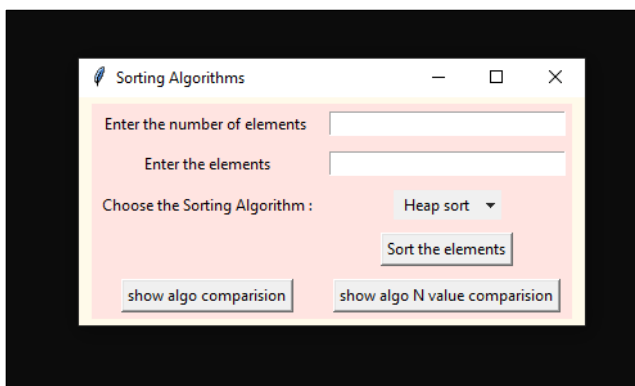Sorting_Algorithms_gui.py file to get the project running.

Steps to follow:

1. open command prompt(windows) or terminal(mac)
2. go to the directory in which the project file is saved.
3. Type
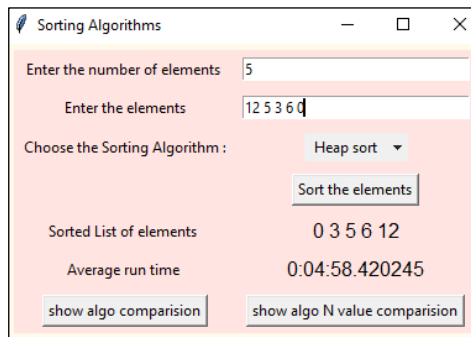   python Sorting_Algorithms_gui.py

And hit enter, we get a GUI as shown below.

4. Enter the number of elements, list of elements *with the single space between the elements*, select the sorting algorithm and click on sort the elements as shown below.

5. Click on show algo comparison to get a graph of run time comparison between the entered elements.
6. Click on show algo N value comparison to get the graph of run time comparison of algorithm with N randomly generated values.