**Title**

**Group No: Roll nos: EmailIDs:**

**Abstract: (Given at the end)**

1. **Introduction** (2 pages -with 40-50 lines)
   1. Introduction about your problem
   2. Why the problem needs to be solved
   3. Existing solutions
   4. Limitations/difficulties in these solutions
   5. Your Contributions to resolve these limitations
2. **Data structure 1**
   1. Description/ definition
   2. Real Time Application /Where it is used?
   3. Requirements ( ex. Data must be sorted ordered , etc. ) / limitations
   4. How it is used to address the chosen problem?

2.4.1 Explanation

2.4.2 Algorithm/Pseudocode

2.4.3 Example

1. **Data Structure 2**
   1. Description/ definition
   2. Real Time Application /Where it is used?
   3. Requirements ( ex. Data must be sorted ordered , etc. ) / limitations
   4. How it is used to address the chosen problem?

3.4.1 Explanation

3.4.2 Algorithm/Pseudocode

3.4.3 Example

1. **Data Structure 3**
   1. Description/ definition
   2. Real Time Application /Where it is used?
   3. Requirements ( ex. Data must be sorted ordered , etc. ) / limitations
   4. How it is used to address the chosen problem?

4.4.1 Explanation

4.4.2 Algorithm/Pseudocode

4.4.3 Example

6. **Performance comparison** (atleast five different metrics must be analysed)

6.1 Metric 1: Time complexity

- Graph showing the performance of Data structure 1,2 and 3 by varying x axis and/or y axis

- Inferences and Justification from the graph

6.2 Metric 2 : space complexity

- Graph showing the performance of Data structure 1,2 and 3 by varying x axis and/or y axis

- Inferences and Justification from the graph

6.3 Metric 3 ( Based on the chosen problem)

6.4 Metric 4 ( Based on the chosen problem)

6.5 Metric 5 ( Based on the chosen problem)

6.6 Summary Table

7. **Conclusion**

**Abstract:**

- To introduce the area/application - 1 sentence

- General research issues in the area - 1 or 2 sentences

- Which issue is to be addressed in this project? - 1 or 2 sentences

- Why it is an issue? - 1 or 2 sentences

- What are the school of thoughts/existing solutions for the issue under

Consideration? - 1 or 2 sentences

- What are the draw backs/ weakness/ limitations of these solutions? - 1 or 2 sentences

- How to overcome these drawback? - 1 or 2 sentences

- Which solution is proposed in this project to overcome the drawback? - 1 sentence

- What will be the proof of concept for the proposed solution? - 1 sentence

- What types of experiments will be conducted and what will be the

metrics of evaluation of the performance of the proposed solution? - 1 or 2 sentences

Keywords