CL3 Practical (List of experiment)

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List of Experiment

1. Design a distributed application using RPC for remote computation where client submits an integer
value to the server and server calculates factorial and returns the result to the client program.

2. Design a distributed application using RPC for remote computation where client can send arithmetic operations to the server, and the server performs the operation and sends the result back to the client program.

3. Design a distributed application using RMI for remote computation where client submits two strings to the server and server returns the concatenation of the given strings.

4. Design a distributed application using RMI for remote computation where client submits a string to the server and server returns the whether the given string is palindrome or not.

5. Design a distributed application using MapReduce under Hadoop for: a) Character counting in a given text file. b) Counting no. of occurrences of every word in a given text file.

6. Design a distributed application using MapReduce under Hadoop for: counting the number of sentences in a given text file. You can define a sentence as a string of characters that ends with a period (‘.’), question mark (‘?’), or
exclamation mark (‘!’).

7. Design a distributed application using MapReduce under Hadoop for: counting the number of unique words in a given text file.

8. Design a distributed application using MapReduce under Hadoop for: finding common words between two given text files.

9. Write code to simulate requests coming from clients and distribute them among the servers using the

10. Implementation of Clonal selection algorithm using Python.

11. Create and Art with Neural style transfer on given image using deep learning.

12. To apply the artificial immune pattern recognition to perform a task of structure damage Classification.

13. Implement DEAP (Distributed Evolutionary Algorithms) using Python.

14. Implement Ant colony optimization by solving the Traveling salesman problem using python Problem
statement- A salesman needs to visit a set of cities exactly once and return to the original city. The task is to find the shortest possible route that the salesman can take to visit all the cities and return to the starting city

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Word

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