DISTRIBUTED SYSTEMS-LAB, MSE Exam Sample Questions

1. Implement
   a. Implement Echo client-server application in JAVA using TCP.
   b. Implement a concurrent daytime client-server application in JAVA.

2. Implement
   a. Implement Echo client-server application in JAVA using UDP.
   b. Implement a concurrent daytime client-server application in JAVA.

3. Write a program to demonstrate Rikart-Agrawal Mutex (RAM) Mutual Exclusion in a distributed environment.

4. Develop a distributed chat server using TCP sockets in JAVA for a Single server- Single client environment.

5. Implement a distributed chat server using TCP sockets in JAVA for a Single server- Multiple client environment.

6. Write a program for Remote Method Invocation (RMI) mechanism for accessing remote methods (ADD, SUB, MUL & DIV).

7. Write a program to calculate Factorial of the given number using the Remote Method Invocation (RMI) mechanism.

8. Write a program to perform Matrix *NxN* Multiplication using the Remote Method Invocation (RMI) mechanism.

9. Write a program for displaying Fibonacci Series using the Remote Method Invocation (RMI) mechanism.

10. Implement the Matrix Transportation program using the Remote Method Invocation (RMI) mechanism.

11. Write a program to perform Inverse of a Matrix using the Remote Method Invocation (RMI) mechanism.

12. Write program to search (any method) the number from a given list using the Remote Method Invocation (RMI) mechanism.

13. Write a program to sort the given list using the Remote Method Invocation (RMI) mechanism (any sorting technique)

14. Implement the String concatenation program using the Remote Method Invocation (RMI) mechanism.

15. Implement the program to reverse the given string using the Remote Method Invocation (RMI) mechanism.

16. Write a program illustrating Palindrome using the Remote Method Invocation (RMI) mechanism.

17. Develop a single client- Single server application that uses File Transfer Protocol (FTP) using JAVA.

18. Develop multiple clients- single server application that uses File Transfer Protocol (FTP) using JAVA.

19. Write a program for Remote Procedure Call (RPC) Protocol for accessing remote Procedure (ADD, SUB, MUL & DIV).

20. Write a program for Remote Procedure Call (RPC) Protocol for accessing remote Procedure (*NxN* Matrix ADDITION).