**Department of Computer Science and Engineering**

University of Rajshahi, Rajshahi

CSE 415P: Parallel Processing and Distributed System Lab

**Simple RMI Call**

1. Using RMI, implement the following: Read two integers from console of local machine, print the value of two integers in remote machine, calculate the sum in remote machine and print the result in local and remote machine.
2. Using RMI, implement the following: Read some simple console command (e.g. dir, mkdir etc) from local machine execute the corresponding command in remote machine and return the result in local machine.
3. Using RMI, implement the following: suppose remote machine contains plain text file. Send a request from local machine to read the contents of that file from local machine and process the request in remote machine and return the contents into local machine.

**Multiple RMI Call**

1. Suppose you are given a set of n numbers. Call multiple servers (RMI) from a single client to add and multiply the number sequence. One server will add the numbers and another will do the job of multiplying.
2. Using RMI, call multiple server from a single client to calculate the sum of numbers between two given numbers. The first server should return the sum of a portion of that range and the second server should return the sum of the rest of the range. Finally the client should add the two sums and show the result.
3. Suppose you are given a set of n numbers. Call multiple servers (RMI) from a single client to sort those numbers. One server will sort the sequence in ascending order and another will do the job in descending order.

**Multi-level RMI Call**

1. Using RMI implement the following: Call a main server from a single client to calculate the sum of numbers between two given numbers. The main server should calculate the sum by distributing the job to two child server.