**Lab Task**

**Question No. 1: [2 marks]**

Design a client server model in such a way that the server should be able to echo back the same message received from the client.

**Question No. 2: [4 marks]**

Design a client-server model for one-way communication. The client should be able to send messages only and the server should only receive messages.

In the first iteration, the client should send a number. In the second iteration, the client should send an operator. In the third iteration, the client should send a number again.

Upon receiving all three messages, the server should perform the desired calculation according to the operator and display the result.

For example:

Client sent 2

Client sent +

Client sent 3

Server should display 5

**Question No. 3: [4 marks]**

Design a client-server model for two-way communication. Both the client and server should be able to send and receive messages.

Upon the establishment of successful connection, the server should send a message, “Hi, you have connected to the server!”.

**[**The client should then send a string to the server. The server should reverse the string and send it back to the client. The client should then display the received string**.] This job will be done in a loop of 5 times.**