

## LAB-4

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1) Fully implemented the single client and server functionality with correct evaluation of expression. The server is taking input from the client and returning the answer for the expression. It is able to do simple arithmetic operations like addition, subtraction, division, multiplication on two operands.

How to run:

- 1) `gcc server.c -o server.out; ./server.out 9000`
- 2) `gcc client.c -o client.out; ./client.out 127.0.0.1 9000`
- 3) enter expression on client's terminal and server will return answer to client
- 4) `ctrl+c` to exit

2) Fully implemented multiple client functionality to correctly evaluate the expression. The server is receiving input from the client and returning the answer for the expression. Simple arithmetic operations are supported. Max clients allowed is 4.

**Note: only binary operands such as  $1+2$ ,  $1-3$ ,  $1*2$  are allowed and division by 0 is not allowed.**

How to run:

- 1) `gcc multiser.c -o server.out; ./server.out 9000`
- 2) `gcc client.c -o client1.out; ./client1.out 127.0.0.1 9000`

3)gcc client.c -o client2.out;./client2.out 127.0.0.1 9000

4)give expressions through clients.

5)ctrl+c to exit

**3)**Fully implemented multiple client functionality to correctly evaluate the expression. Maximum clients allowed. Division by 0 is not allowed. Simple arithmetic operations are supported. Note:**only binary operands such as 1+2 ,1-3,1\*2 are allowed and division by 0 is not allowed.**

How to run:

1)gcc -o threadserver.out threadserver.c;./threadserver.out 8999

2)gcc -o client.out client.c; ./client.out 127.0.0.1 8999

3)open multiple clients using the above code.

4)ctrl+c to exit

**Note: In case of binding error try changing the port.**