

OUTPUT (Left Screen is Server Side, Right Screen is Client Side)

Firstly, we compile the c program using the following :

```
magnificent@magnificent: ~/n
magnificent@magnificent:~/n$ gcc server.c -o server
magnificent@magnificent:~/n$ gcc client.c -o client
magnificent@magnificent:~/n$
```

Then we run the server by using ./server command

```
magnificent@magnificent:~/hp$ ./server
Socket Created
Binding Done
Waiting for data...

magnificent@magnificent:~/hp$
```

Then we run the client by suing ./client command

```
magnificent@magnificent:~/hp$ ./server
Socket Created
Binding Done
Waiting for data...

magnificent@magnificent:~/hp$ ./client
Socket created
Enter the expression in the num1 opera
nd num2 form
```

Here the server sends the output according to the user information entered :

```
magnificent@magnificent:~/hp$ ./server
Socket Created
Binding Done
Waiting for data... Received Data: 88+8
*
Operand 1: 88.00
Operand 2: 8.00
Operator: +
Result is: 88.00 + 8.00 = 96
Waiting for data...

magnificent@magnificent:~/hp$ ./client
Socket created
Enter the expression in the num1 opera
nd num2 form 88+8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form
```

```
magnificent@magnificent:~/hp$ ./server
Socket Created
Binding Done
Waiting for data... Received Data: 88+8
♦
Operand 1: 88.00
Operand 2: 8.00
Operator: +
Result is: 88.00 + 8.00 = 96
Waiting for data... Received Data: 10*5
♦
Operand 1: 10.00
Operand 2: 5.00
Operator: *
Result is: 10.00 * 5.00 = 50
Waiting for data...

magnificent@magnificent:~/hp$ ./client
Socket created
Enter the expression in the num1 opera
nd num2 form 88+8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 10*5
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form
```

```
magnificent@magnificent:~/hp$ ./server
Socket Created
Binding Done
Waiting for data... Received Data: 88+8
♦
Operand 1: 88.00
Operand 2: 8.00
Operator: +
Result is: 88.00 + 8.00 = 96
Waiting for data... Received Data: 10*5
♦
Operand 1: 10.00
Operand 2: 5.00
Operator: *
Result is: 10.00 * 5.00 = 50
Waiting for data... Received Data: 75-8
♦
Operand 1: 75.00
Operand 2: 8.00
Operator: -
Result is: 75.00 - 8.00 = 67
Waiting for data...

magnificent@magnificent:~/hp$ ./client
Socket created
Enter the expression in the num1 opera
nd num2 form 88+8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 10*5
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 75-8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form
```

```
magnific... magni...
Socket Created
Binding Done
Waiting for data... Received Data: 88+8
⬇
Operand 1: 88.00
Operand 2: 8.00
Operator: +
Result is: 88.00 + 8.00 = 96
Waiting for data... Received Data: 10*5
⬇
Operand 1: 10.00
Operand 2: 5.00
Operator: *
Result is: 10.00 * 5.00 = 50
Waiting for data... Received Data: 75-8
⬇
Operand 1: 75.00
Operand 2: 8.00
Operator: -
Result is: 75.00 - 8.00 = 67
Waiting for data... Received Data: 30/2
⬇
Operand 1: 30.00
Operand 2: 2.00
Operator: /
Result is: 30.00 / 2.00 = 15
Waiting for data...

magnificant@magnificant:~/hp$ ./client
Socket created
Enter the expression in the num1 opera
nd num2 form 88+8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 10*5
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 75-8
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form 30/2
Data Sent to the server
Enter the expression in the num1 opera
nd num2 form
```