EE 5379 Network Protocols
Programming Assignment #1: Computation Application
Due Date: March 4, 2020 (before Midnight)

Objective:
    1) To develop a network application that performs computation.

Instructions:

1) Develop client and server applications using the C programming language that implement the following protocol.
2) The client sends a computation request to the server which contains 10 double-precision floating point (real) numbers along with an integer that specifies the operation to be performed (OP_SUM=0, OP_MEAN=1, OP_MIN=2, OP_MAX=3). The following data structure should be used:

```
#define OP_SUM 0
#define OP_MEAN 1
#define OP_MIN 2
#define OP_MAX 3

typedef struct
{
   int operation;
   double numbers[5];
}
```

3) The server performs the requested computation and returns the double-precision floating point (real) number to the client.
4) Submit, via Blackboard, the deliverables described below. Use all lower case characters for your file names.

Deliverables:
1) Submit clientApp.c and serverApp.c **with good comments** in a compressed tar file: firstinitiallastname_lab1.tgz.

    Scoring:

Operation/Successful Demonstration	50%
Adherence to Specifications	40%
Quality of Comments	10%
Lateness	-10% per day (including weekends and holidays)