Lab1 (10 points)

Write 2 programs called client1.c and server1.c. They will communicate via DGRAM sockets.

The server1 file will take the port number as a parameter. It will bind a datagram socket to that port number. It will then loop, waiting for client1 to send it data. It will print out the data that is sent.

The client1 file will take the ip address and port number of the server as parameters. It will then loop, asking the user for a string to send to the server. If the string STOP is entered, the client exits gracefully and DOES NOT send the STOP string the server.

Submit well-documented and well indented code along with a README file explaining how to run

the program, and a makefile. Submit the zipfile to Carmen

The grading rubric is as follows:

• Program correctness and robustness (what happens if I give garbage input): 80%

• Coding style (comments, indentations, README, Makefile): 20%