README file:

1. Name: AKSHAY DEEPAK HEGDE
2. Student ID: 8099460970
3. Work I have done:

In this socket programming project, I have successfully implemented all the required functionalities with one client file, one edge server file and two backend servers.

I used Oracle Virtual Box along with Ubuntu Virtual Machine to code and test my programs.

1. File Structure:

* client.c – Client’s source file
* edge.c – Edge server’s source file
* server\_and.c – backend server to compute AND operation
* server\_or.c – backend server to compute OR operation
* makefile – one makefile to run the project as a whole

1. Compilation and Execution instructions:

* Create 5 different terminal window instances.
* cd all 5 terminal windows to the project directory.
* In the first terminal window, type

make all - to compile and link all the executable files.

* In the next 3 terminals, type below commands to run the

make edge

make server\_or

make server\_and

* In the last terminal, type

./client job.txt

* Wait for the program’s response and output.

1. Message format:
2. Idiosyncrasy: No idiosyncrasies detected for the program itself, which is that it may be affected by the UNIX OS conditions but the problem is not at the program.

All possible errors which may occur due to the OS's conditions are caught and are properly handled.

1. Some of the code parts for socket connection are reused from Beej’s tutorial.

All other code, including the socket-related code are written and implemented by myself.