

Comp 4985 Computer Systems Technology January 2009.

Data Communication Option

Assignment #1

Due Date: January 28, 0930 hrs. This is an individual assignment.

Objective:

To implement a Windows program that demonstrates the use of the basic Winsock 2 API database lookup calls.

Your Mission:

You will write a **Win32 menu driven application program** that will implement the following commands for a user:

1. Take a user specified host name and resolve it into a IP address.
2. Take a user specified a IP address resolve it into an host name(s).
3. Take a user specified service name/protocol and resolve it into its port number.
4. Take a user specified port number/protocol and resolve it into its service name.

You have already been provided with code examples (Win32 console) that perform the above tasks. The idea here is for you to design and implement similar code in a GUI based application.

Constraints

- Provide a menu item that the user can click on to select each of the above tasks.
- Get the user input, then display the original user input as well as the results of the lookup in the application window.

To Be Submitted:

- Hand in complete and well-documented design work and listings of your program.
- Provide a bound copy of all your design work, **code listings** and an **executable** and on a disk.

Evaluation

- | | |
|----------------------------|------|
| (1). Design Work: | / 10 |
| (2). Code Quality: | / 5 |
| (3). Functionality: | / 25 |

Total:

/ 40