1. The File Transfer Protocol (FTP) is a commonly used protocol on the Internet, used for transferring files between two machines. It works using the client-server model of computing, above TCP/IP.

Familiarize yourself with the FTP client. Learn the commands. FTP works across different hosts and file structures.

To do: Summarize the FTP client commands on a single page.

Study RFC 959 from 1985 that describes the initial FTP protocol. To do: Summarize the RFC in a page or two.

Now, the issue is how to make FTP more secure. Read the following documents on the Web. You can use a search engine such as google.com to locate these and other documents.

(a) RFC 1123: Requirements for Internet Hosts—Application and Support
(b) RFC 2228: FTP Security Extensions
(c) RFC 2389: Feature negotiation mechanism for the File Transfer Protocol
(d) RFC 2577: FTP Security Considerations

To do: In a page or so, describe the main security issues in FTP.

To do: Design your own secure FTP system. Describe your proposal. Provide diagrams, flowcharts, etc., to explain your ideas.

2. I need a brief proposal on a semester project. Please print single-spaced. I need the following sections: Title, Abstract, Problem Specification, Related Research, Proposed Solution, Proposed Schedule, and References. A few lines per section is enough. I need the proposal in a week from today.