CA1: Homework Problems

Instructions:

- 1. The homework is due on Wednesday, March 7, 2018 at the start of lecture.
- 2. You should submit your code electronically on IVLE.

HTTP Server:

In this assignment, you need to implement two servers that serve requests for HTTP/1.1. The first server (S1) needs to use TCP as the transport protocol while the second server (S2) needs to use UDP instead. The servers need to satisfy the following requirements:

- 1. Concurrency: Both the servers need to be concurrent, i.e., they should be able to serve multiple HTTP requests simultaneously.
- 2. For S1: The HTTP response should be a web-page having a form with one text input. After the text is entered, S1 needs to update the web-page by displaying the entered text.
- 3. For S2: The HTTP response needs to be a web-page displaying the text "EE-4210: Continuous assessment".
- 4. Instead of using the standard port of HTTP, you need to use a non-standard port.
- 5. You are not allowed to use any API/libraries to construct the HTTP headers i.e. you are required to construct the HTTP headers as a string in your implementation.

Note:

- 1. You need to automate a way to create multiple HTTP clients to test and show that your servers are concurrent.
- 2. You can use C or Python to implement your servers and clients.