Network Programming II

1. Make an app that takes a URL from the user and prints out the number of lines in the page at that URL. Use HttpURLConnection. (To simplify your code, steal the layout file and some of the initial Java setup from my FTP welcome message app.)

2. Make an app that takes a URL from the user and prints out the number of characters in the page at that URL. Use HttpClient. (Hint: *very* easy if you use my HttpUtils).

3. My loan calculator app is running on http://apps.coreservlets.com/NetworkingSupport/ loan-calculator. If you fail to supply input, it uses default values, so that URL alone is enough to get a JSON result. (Type the URL into a Web browser to see.) Make an app that connects to that URL, turns the result into a JSON object, and displays the monthly payment.

4. Experiment with interactively passing JSON data to the loan-calculator service. E.g., try

   http://apps.coreservlets.com/NetworkingSupport/loan-calculator?
   loanInputs={amount: 200000, rate: 6.5, months: 180}

   (omit the carriage return in the middle, of course)

5. Make an app that takes a loan amount, two interest rates and two time periods in months. Compute the total payments for the loan under each of those two situations, and display the lower of the two values.