Marking Guide
CPSC 441 – Assignment 1
Total Marks = 100

*Code that does not **compile** and **run** on CPSC Linux servers (e.g., linux.cs.ucalgary.ca) will automatically receive a mark of **0** regardless of the actual implementation and the amount of code submitted. The TAs are unable to evaluate submissions that do not compile and run.*

General Features:

- Downloads text and binary objects
  - Object is downloaded correctly, the downloaded object is an exact copy of the original object, no missing or additional data
  - The local file name is correct
- Program can handle different URLs
  - With and without port number
  - Different host names
  - Arbitrary path names
- Concurrent range requests implemented correctly
  - Multiple threads running concurrently
  - Each thread handles a range request
  - Object is downloaded correctly

Comments:

Requirements

Penalty	Description	Grade
-80	Program does not directly use TCP Sockets, e.g., uses `UrlConneciton` class	
-20	Program includes other concepts or libraries that are not allowed (e.g., URL/URI classes)	
-10	Submission instructions have not been followed	
-10	Program does not have proper code structure and comments	

Functionality: `UrlCache` Class

Marks	Description	Grade
60	**Basic Functionality**	

40	• Text and binary objects
	    o GET text object correctly (20)
	    o GET binary object correctly (20)	

20	• URL handling
	    o Without port number (5)
	    o With port number (5)
	    o Different host name (5)
	    o Different path name (5)	

40	**Additional Functionality**	

	• Concurrent Range requests
	    o HEAD request (10)
	    o Concurrent GET requests (20)
	    o Object downloaded correctly (10)	