Mandatory Activity. Concurrent Programming. Lab 11.

This activity must be autonomously done by the student. **It must be done prior to the following laboratory class**. It will be used as part of the following laboratory.

Activity

Using the Task Parallel Library (TPL) to implement a parallel application to count the number of words occurrences in a text file (e.g., "language" = 10 times, "C#" = 3 times…). It can be assumed that no hyphen is used at the end of a line (words are not hyphenated).

Implement both the sequential and parallel version, measuring the runtime performance benefit (if any). Use the `clarin.txt` file to test the application.

Why is the benefit so low?

What can be done to achieve a higher benefit?

Modify your implementation to obtain the highest level of optimization using TLP and PLinq.

Use the appropriate programming language features learned so far.