Exercise (Time: 40 minutes)

Write a simple .NET console application that:

1. Receives a string as command line argument

2. Counts the occurrence of each letter of the English alphabet in the string

3. Display a tabulate containing each letter of the alphabet and the correspondent frequency inside the provided string parameter

4. (Optional) After the tabulate is displayed, display the message: "The text has been processed. Total letters counted: [N]" where [N] is the total number of letters counted inside the text submitted.

Example:

If the text submitted is "Cbb acCA", the tabulate should display something like:

A	B	C	D	...
2	2	3	0	…

Notes: It is not relevant for the counting if the letters are capitalized or not:
e.g., "A" is the same as "a".

Criteria for development:

- Functionality and correctness of the solution

- Reusability of the code

- Clarity, cleanliness and simplicity of the code behind (use of comments is recommended)

- Performance and scalability of the code