

CSCI 1301 – Lab 20

October 23, 2019

1 Checkpoint

The code we just studied in class, slightly expanded and with an application program, is available to download¹.

2 Validating Inputs (Optional)

Edit the `Program.cs` file of the project you previously download so that:

- User entering a value different from A, a, H, h, O and o would be asked again, and asked as long as they do not give a valid answer,
- User entering a credit score not between 300 and 850, or that is not an integer, would be asked again, and asked as long as they do not give a valid answer,
- User entering an amount needed or a downpayment that is not a decimal, or is a negative decimal, would be asked again, and asked as long as they do not give a valid answer.
- (Optional) Use the `ToLower()`² or `ToUpper()`³ methods of the `char` class to make the program more readable (you will be able to greatly simplify the `if` statement).
- (Optional, hard) Write a method that takes a character as an argument, and return the string returning the type of loan designed by that character. Then, use this method in the `ToString` and in the application program instead of doing it “by hand”.

3 Solution

A (partial) solution that implements (partially) the first, next to last and last item of the previous list is available to download⁴.

¹LoanCalculator.zip

²<https://docs.microsoft.com/en-us/dotnet/api/system.char.tolower?view=netframework-4.7.2>

³<https://docs.microsoft.com/en-us/dotnet/api/system.char.toupper?view=netframework-4.7.2>

⁴LoanCalculator_sol.zip