Class With Decisions

<https://csci-1301.github.io/about#authors>

June 3, 2021 (03:06:19 AM)

Table of Contents

# Validating Inputs

Start by downloading the [LoanCalculator](LoanCalculator.zip) solution, that mixes classes and decision structures.

Edit the Program.cs file of the project you previously downloaded to add the following validation features:

1. Users entering a value other than A, a, H, h, O and o for the loan type will be asked again, and asked as long as they do not give a valid answer.
2. Users entering a credit score not between 300 and 850, or that is not an integer, will be asked again, and asked as long as they do not give a valid answer.
3. Users entering an amount needed or a down payment that is not a decimal, or is a negative decimal, will be asked again, and asked as long as they do not give a valid answer.
4. (Optional) Use the [ToLower()](https://docs.microsoft.com/en-us/dotnet/api/system.char.tolower?view=netframework-4.7.2) or [ToUpper()](https://docs.microsoft.com/en-us/dotnet/api/system.char.toupper?view=netframework-4.7.2) methods of the char class to make the program more readable – you will be able to greatly simplify the if statement that checks the loan type.
5. (Optional, hard) Write a method for the Loan class that takes a character as an argument, and returns the string describing 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”.

You can find a possible solution [in this archive](LoanCalculatorSol.zip).