

# Assignment IV

Assigned Date Friday November 1, 2024

Due Date: Sunday November 10, 2024, end of day

You are to design and implement a mortgage loan calculator graphical user interface and application in C# via Microsoft Visual Studio that does the following:

- Allow the user to input the *loan amount*, *loan interest*, and/or the *loan period*, and/or the *periodic repayment* amount.
- The calculator will compute the single missing *loan period* or *periodic repayment amount* of information.
- If all the data is entered then assume one of the inputs (loan period or monthly) may be incorrect and compute the correctness of the other – Inform the user whether there is an error or all data is correct. Alternately, block access to the unselected option (gray out).
- If the user inputs invalid data then an appropriate error message must be displayed (including providing correct input values, where possible).
- User must be able to reset fields, and access help facilities (mouse-over tips).
- The GUI will display appropriate messages and instructions to the user.
- The application will be used by a general population, including loan managers. State assumptions. You are to submit an **electronic copy** of your program (the zipped project files) via Blackboard.
- Your submission file name must be *LastnameFirstnameAssignment04.zip*).