**Loan Calculator User Manual**

The Loan Calculator program is a tool designed to calculate loan amortization schedules. It is a GUI (Graphical User Interface) application that allows users to input loan details and generate a table displaying the details of the loan, such as monthly payments, interest paid, and principal paid.

How to Use:

Enter the principal amount, interest rate, and loan term (in years) in the corresponding fields.

Press the "Calculate" button to generate the amortization schedule.

The schedule will be displayed in a table below the input fields, showing the payment number, monthly payment, interest paid, principal paid, and remaining balance.

Press the "Clear" button to clear the table and start over with a new calculation.

Press the "Save" button to save the amortization table as an excel file.

Features:

The program handles common errors in input fields, such as missing values or non-numeric inputs, by displaying an error message in a new window.

The program calculates monthly payments using the numpy\_financial package.

The program rounds all monetary values to two decimal places.

The program allows users to save the amortization table as a .xlsx file for record-keeping or future reference.

Limitations:

The program assumes that the loan interest rate is an annual percentage rate (APR), and will convert it to a monthly interest rate for calculation purposes. If the interest rate is a monthly rate, it will need to be converted to an APR before being entered into the program.

The program assumes that monthly payments will be made on a regular schedule, and does not take into account any changes to payment amounts or schedules.

The program does not account for extra payments made towards the principal balance, or any other prepayment options.

The program does not consider compounding interest. It only calculates simple interest.