

Introduction

I developed a program for a bank that will allow it to process loans for customers. The user will enter information, such as interest rate, length of loan, amount borrowed, and the program will compute the missing information. It will also be able to display a report showing the terms for the loan. Customer data will be able to be saved and retrieved from a file or files.

I.P.O.

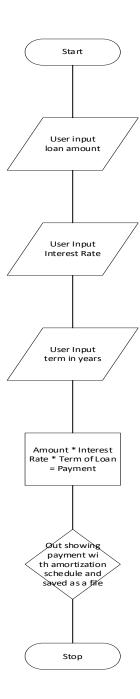
Input Process Output

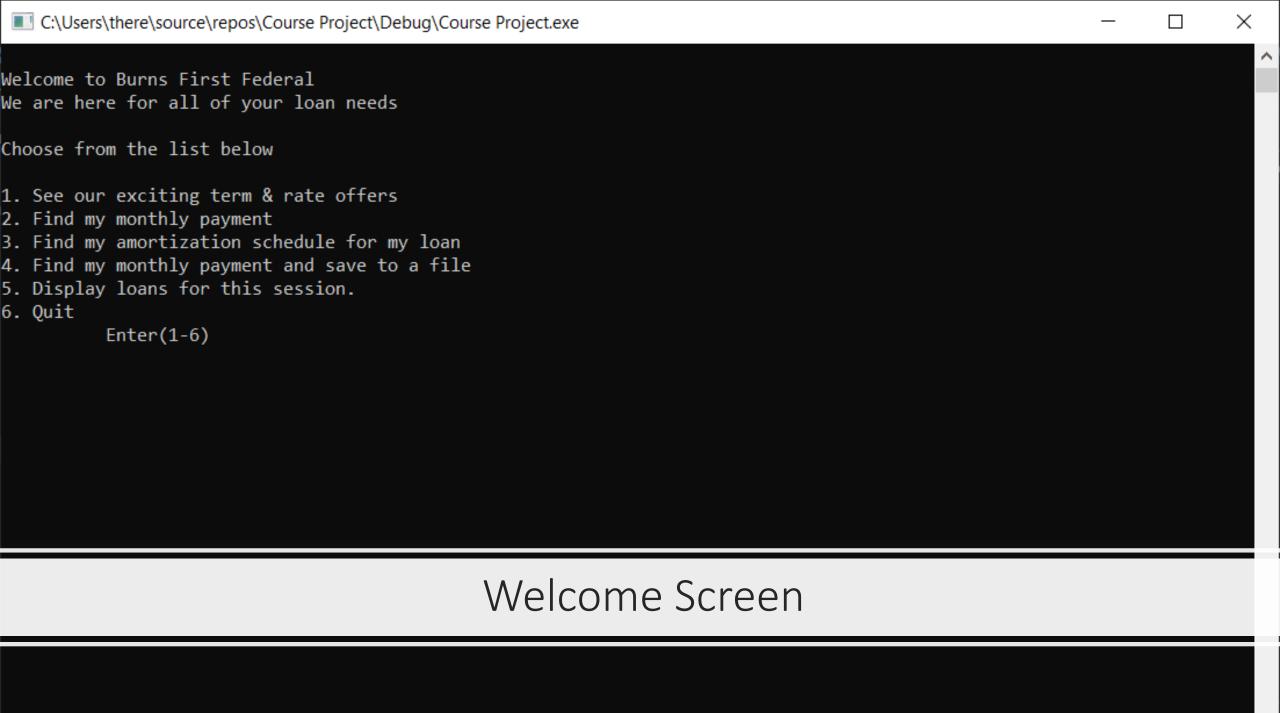
Interest Rate, Length of Loan, Amount Borrowed.

Interest Rate *
Length of Loan *
Amount Borrowed =
Payment

Display a report showing the terms of the loan as well as saving the file.

Flowchart



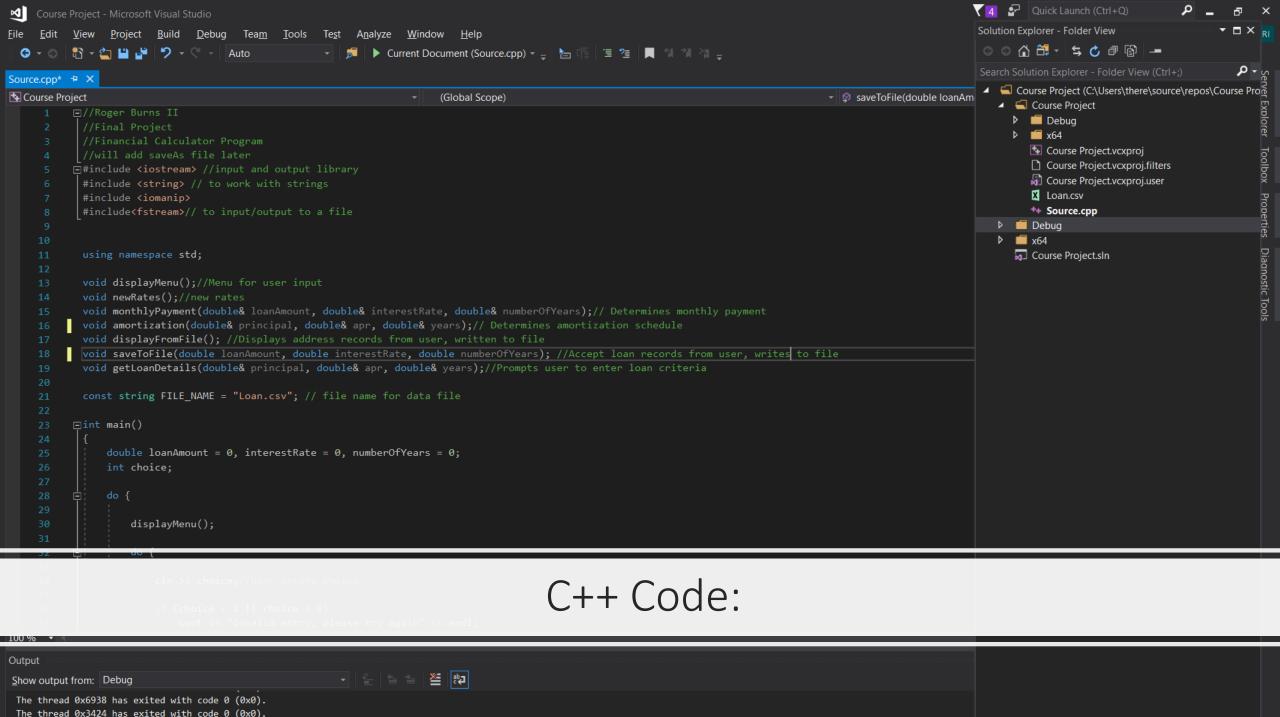


Rate and Term Offers with loop

```
Choose from the list below

    See our exciting term & rate offers

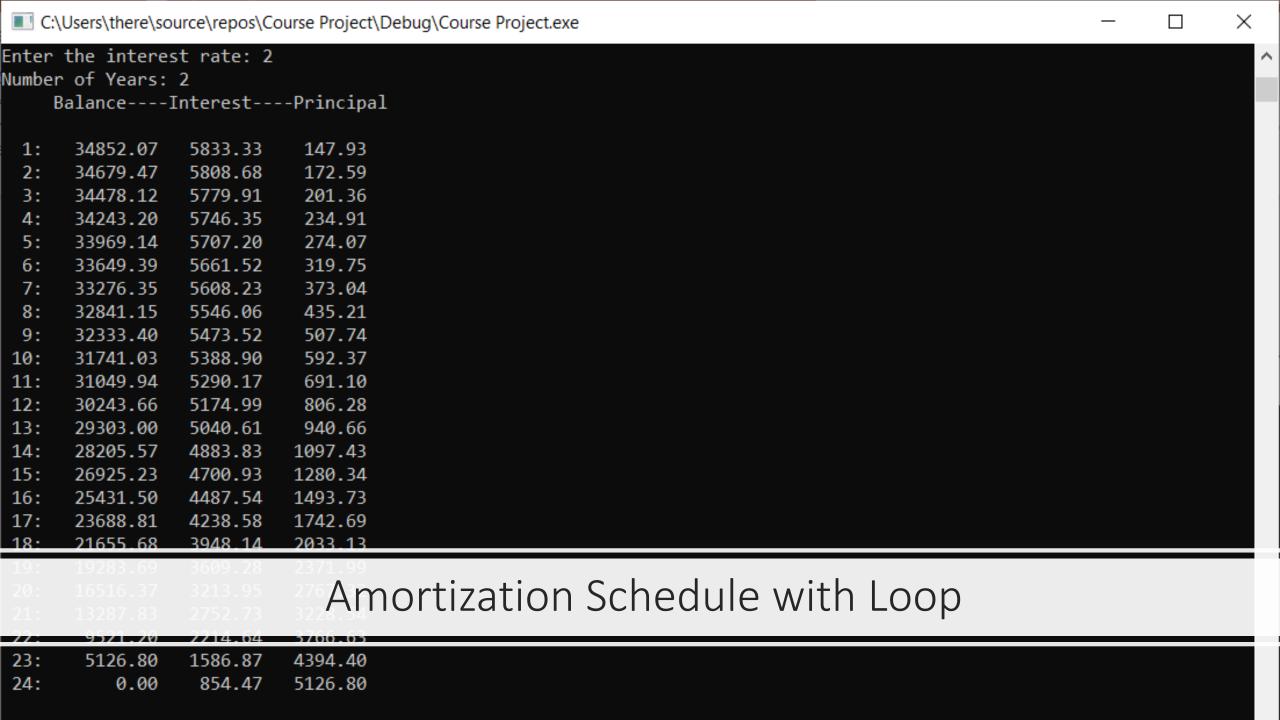
Find my monthly payment
Find my amortization schedule for my loan
Find my monthly payment and save to a file
Display loans for this session.
6. Quit
         Enter(1-6)
Term------Rates
1 Year(s) is 1 percent.
2 Year(s) is 2 percent.
3 Year(s) is 3 percent.
4 Year(s) is 4 percent.
5 Year(s) is 5 percent.
Press any key to continue . . .
```



```
C:\Users\there\source\repos\Course Project\Debug\Course Project.exe
Find my monthly payment
3. Find my amortization schedule for my loan
Find my monthly payment and save to a file
Display loans for this session.
6. Quit
         Enter(1-6)
Enter the loan amount: 35000
Enter the interest rate: 3
Number of Years: 3
Total amount to be paid: 36050
Total interest: 1050
Monthly amount to be paid: 1001.39
Welcome to Burns First Federal
We are here for all of your loan needs
Choose from the list below

    See our exciting term & rate offers

                                  Monthly Payment with Loop
6. Quit
         Enter(1-6)
```



Monthly payment saving to a .csv file

```
■ C:\Users\there\source\repos\Course Project\Debug\Course Project.exe
Welcome to Burns First Federal
We are here for all of your loan needs
Choose from the list below
  See our exciting term & rate offers
  Find my monthly payment
  Find my amortization schedule for my loan
  Find my monthly payment and save to a file
  Display loans for this session.
  Quit
         Enter(1-6)
 nter the loan amount: 35000
 nter the interest rate: 2
 umber of Years: 2
Saving loan data to a file with monthly payment
Press any key to continue . . .
```

```
Loan.csv + X Source.cpp

1    Loan amount: 35000
2    Interest rate: 2
3    Number of years: 2
4    Monthly payment: 1487.50
5
```

```
C:\Users\there\source\repos\Course Project\Debug\Course Project.exe
Welcome to Burns First Federal
We are here for all of your loan needs
Choose from the list below

    See our exciting term & rate offers

Find my monthly payment
3. Find my amortization schedule for my loan

    Find my monthly payment and save to a file

Display loans for this session.
6. Quit
          Enter(1-6)
Reading data fromm the file...
Loan amount: 35000
Interest rate: 2
Number of years: 2
Monthly payment: 1487.50
Press any key to continue
```

Display Loan Terms from .csv file with loop

Conclusion

This program asks the user if he or she wants to calculate the monthly payment of a loan. The program then asks for the required information and solves for the remaining value.

Challenges with my code:

In working with the display function I was challenged with the only input being received was the first integer in the file. I altered the data type from int to string and was able to receive the correct input.