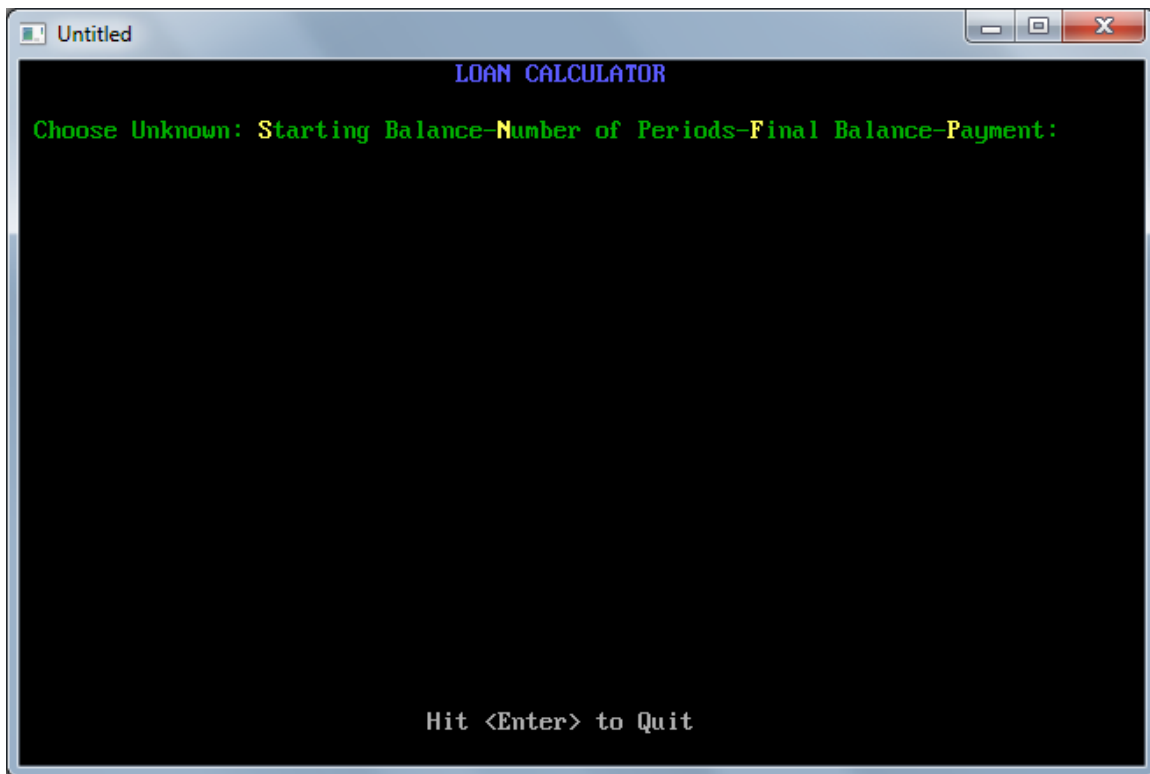
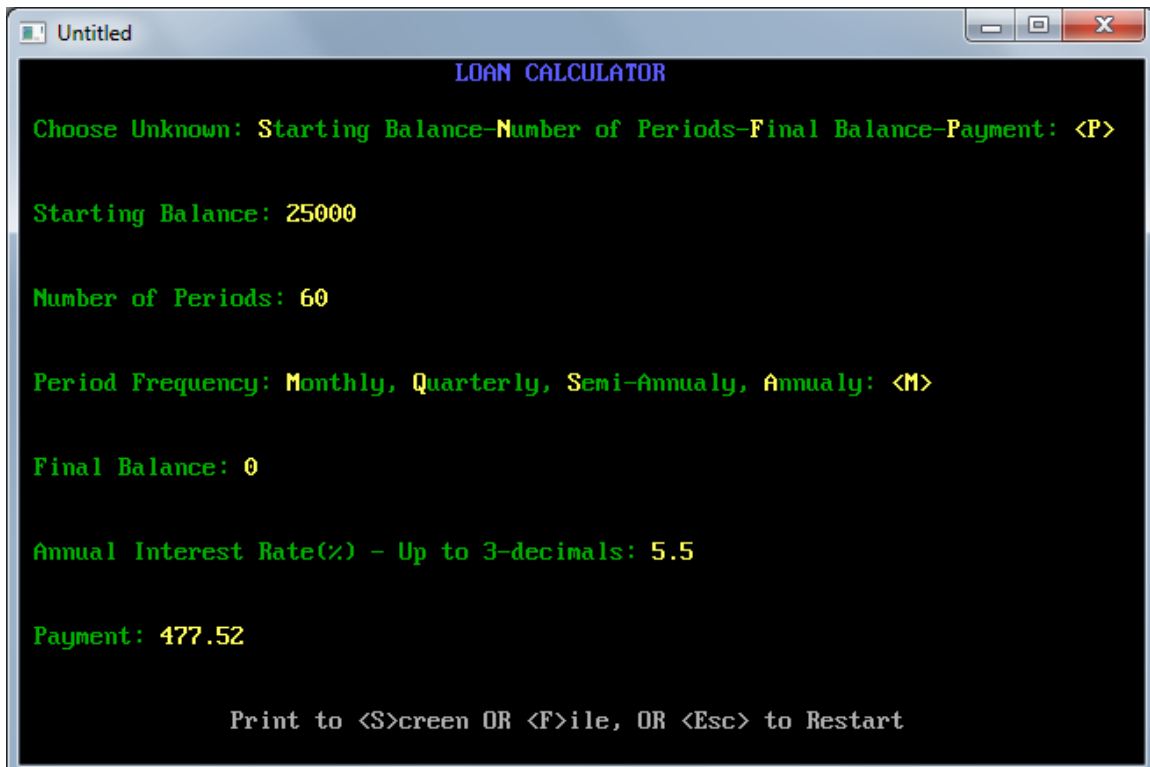


# Loan Calculator



*The Opening Screen*



*Calculating The Payment*

Untitled

**LOAN CALCULATOR**

Starting Balance: 25,000.00      Number Of Periods: 60

Final Balance: 0.62      Period Frequency: M

Payment: 477.52      APR%: 5.5

| Per.# | Balance   | Interest | Principal | Balance   |
|-------|-----------|----------|-----------|-----------|
| 1     | 25,000.00 | 114.58   | 362.94    | 24,637.06 |
| 2     | 24,637.06 | 112.92   | 364.60    | 24,272.46 |
| 3     | 24,272.46 | 111.25   | 366.27    | 23,906.19 |
| 4     | 23,906.19 | 109.57   | 367.95    | 23,538.24 |
| 5     | 23,538.24 | 107.88   | 369.64    | 23,168.60 |
| 6     | 23,168.60 | 106.19   | 371.33    | 22,797.27 |
| 7     | 22,797.27 | 104.49   | 373.03    | 22,424.24 |
| 8     | 22,424.24 | 102.78   | 374.74    | 22,049.50 |
| 9     | 22,049.50 | 101.06   | 376.46    | 21,673.04 |
| 10    | 21,673.04 | 99.33    | 378.19    | 21,294.85 |
| 11    | 21,294.85 | 97.60    | 379.92    | 20,914.93 |
| 12    | 20,914.93 | 95.86    | 381.66    | 20,533.27 |

Hit <Esc> to Go Back OR <Any Other Key> to Continue

*Printing to the First Screen*

Untitled

**LOAN CALCULATOR**

Starting Balance: 25,000.00      Number Of Periods: 60

Final Balance: 0.62      Period Frequency: M

Payment: 477.52      APR%: 5.5

| Per.# | Balance  | Interest | Principal | Balance  |
|-------|----------|----------|-----------|----------|
| 49    | 5,563.68 | 25.50    | 452.02    | 5,111.66 |
| 50    | 5,111.66 | 23.43    | 454.09    | 4,657.57 |
| 51    | 4,657.57 | 21.35    | 456.17    | 4,201.40 |
| 52    | 4,201.40 | 19.26    | 458.26    | 3,743.14 |
| 53    | 3,743.14 | 17.16    | 460.36    | 3,282.78 |
| 54    | 3,282.78 | 15.05    | 462.47    | 2,820.31 |
| 55    | 2,820.31 | 12.93    | 464.59    | 2,355.72 |
| 56    | 2,355.72 | 10.80    | 466.72    | 1,889.00 |
| 57    | 1,889.00 | 8.66     | 468.86    | 1,420.14 |
| 58    | 1,420.14 | 6.51     | 471.01    | 949.13   |
| 59    | 949.13   | 4.35     | 473.17    | 475.96   |
| 60    | 475.96   | 2.18     | 475.34    | 0.62     |

Print to <S>creen OR <F>ile, OR <Esc> to Restart

*Hitting <Esc> to Go Back from the Last Screen*

Untitled

**LOAN CALCULATOR**

Starting Balance: 25,000.00      Number Of Periods: 60

Final Balance: 0.62      Period Frequency: M

Payment: 477.52      APR%: 5.5

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| Per.# | Balance  | Interest | Principal | Balance  |
|-------|----------|----------|-----------|----------|
| 49    | 5,563.68 | 25.50    | 452.02    | 5,111.66 |
| 50    | 5,111.66 | 23.43    | 454.09    | 4,657.57 |
| 51    | 4,657.57 | 21.35    | 456.17    | 4,201.40 |
| 52    | 4,201.40 | 19.26    | 458.26    | 3,743.14 |
| 53    | 3,743.14 | 17.16    | 460.36    | 3,282.78 |
| 54    | 3,282.78 | 15.05    | 462.47    | 2,820.31 |
| 55    | 2,820.31 | 12.93    | 464.59    | 2,355.72 |
| 56    | 2,355.72 | 10.80    | 466.72    | 1,889.00 |
| 57    | 1,889.00 | 8.66     | 468.86    | 1,420.14 |
| 58    | 1,420.14 | 6.51     | 471.01    | 949.13   |
| 59    | 949.13   | 4.35     | 473.17    | 475.96   |
| 60    | 475.96   | 2.18     | 475.34    | 0.62     |

NEW Filename [d:]path\filename.ext: documents\Amortization.txt\_

*Printing to a File from the Last Screen*

Amortization.txt - Notepad

File Edit Format View Help

Starting Balance: 17,800.00      Number Of Periods: 48

Final Balance: 2,800.12      Period Frequency: M

Payment: 452.46      APR%: 15

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| Per.# | Balance   | Interest | Principal | Balance   |
|-------|-----------|----------|-----------|-----------|
| 1     | 17,800.00 | 222.50   | 229.96    | 17,570.04 |
| 2     | 17,570.04 | 219.63   | 232.83    | 17,337.21 |
| 3     | 17,337.21 | 216.72   | 235.74    | 17,101.47 |
| 4     | 17,101.47 | 213.77   | 238.69    | 16,862.78 |
| 5     | 16,862.78 | 210.78   | 241.68    | 16,621.10 |
| 6     | 16,621.10 | 207.76   | 244.70    | 16,376.40 |
| 7     | 16,376.40 | 204.71   | 247.75    | 16,128.65 |
| 8     | 16,128.65 | 201.61   | 250.85    | 15,877.80 |
| 9     | 15,877.80 | 198.47   | 253.99    | 15,623.81 |
| 10    | 15,623.81 | 195.30   | 257.16    | 15,366.65 |
| 11    | 15,366.65 | 192.08   | 260.38    | 15,106.27 |
| 12    | 15,106.27 | 188.83   | 263.63    | 14,842.64 |

*Partial View of the file Amortization.txt (True Type Font is Consolas12 pt for accurate alignment)*

```
Untitled
LOAN CALCULATOR

Choose Unknown: Starting Balance-Number of Periods-Final Balance-Payment: <S>

Number of Periods: 60

Period Frequency: Monthly, Quarterly, Semi-Annually, Annually: <M>

Final Balance: 0

Annual Interest Rate(%) - Up to 3-decimals: 5.5

Payment: 477.52

Starting Balance: 24999.55

Print to <S>screen OR <F>ile, OR <Esc> to Restart
```

*Calculating The Starting Balance*

```
Untitled
LOAN CALCULATOR

Choose Unknown: Starting Balance-Number of Periods-Final Balance-Payment: <N>

Starting Balance: 25000

Period Frequency: Monthly, Quarterly, Semi-Annually, Annually: <M>

Final Balance: 0

Annual Interest Rate(%) - Up to 3-decimals: 5.5

Payment: 477.52

Number Of Periods: 60

Print to <S>screen OR <F>ile, OR <Esc> to Restart
```

*Calculating The Number of Periods*

Untitled

LOAN CALCULATOR

Choose Unknown: Starting Balance-~~Number of Periods~~-Final Balance-Payment: <F>

Starting Balance: 25000

Number of Periods: 60

Period Frequency: Monthly, Quarterly, Semi-Annually, Annually: <M>

Annual Interest Rate(%) - Up to 3-decimals: 5.5

Payment: 477.52

Final Balance: .62

Print to <S>screen OR <F>ile, OR <Esc> to Restart

*Calculating The Final Balance*

Untitled

LOAN CALCULATOR

Choose Unknown: Starting Balance-~~Number of Periods~~-Final Balance-Payment: <P>

Starting Balance: 150000

Number of Periods: 60

Period Frequency: Monthly, Quarterly, Semi-Annually, Annually: <M>

Final Balance: 60000

Annual Interest Rate(%) - Up to 3-decimals: 4.125

Payment: 1868.81

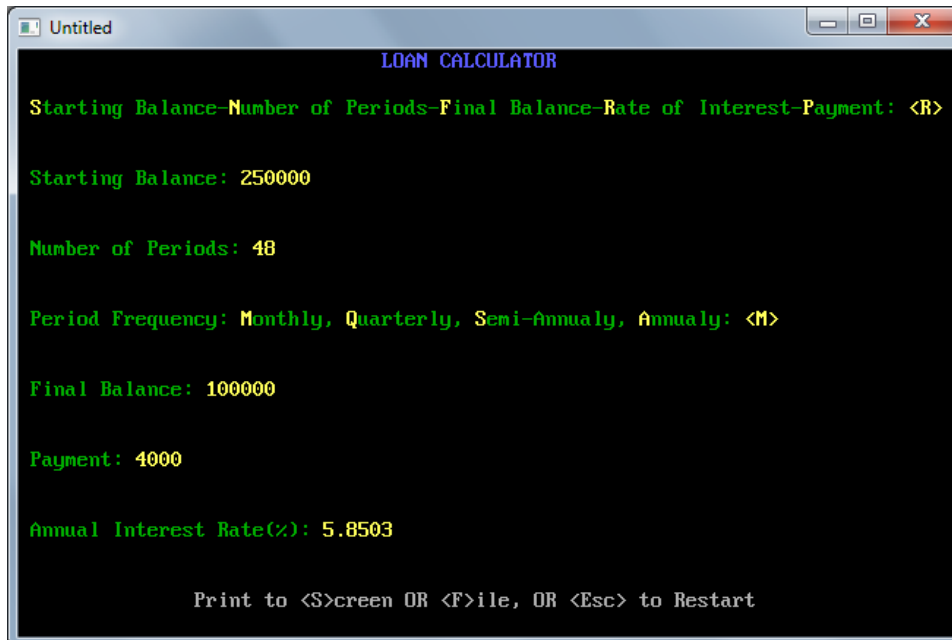
Print to <S>screen OR <F>ile, OR <Esc> to Restart

*Calculating The Payment with a Balloon Final Balance*

## Loan Calculator, Version 2

### Changes:

- Added ability to compute APR% to 4-decimal precision
- Changed APR% entry from 3-decimal precision to 4-decimal precision
- Added rejection of entries with more than the correct maximum number of decimal places: Two (2) decimal places for Starting Balance, Final Balance, and Payment; Four (4) decimal places for APR%
- Added rejection for calculation that results in a Payment  $\leq$  zero



LOAN CALCULATOR

Starting Balance-Number of Periods-Final Balance-Rate of Interest-Payment: <R>

Starting Balance: 250000

Number of Periods: 48

Period Frequency: Monthly, Quarterly, Semi-Annually, Annually: <M>

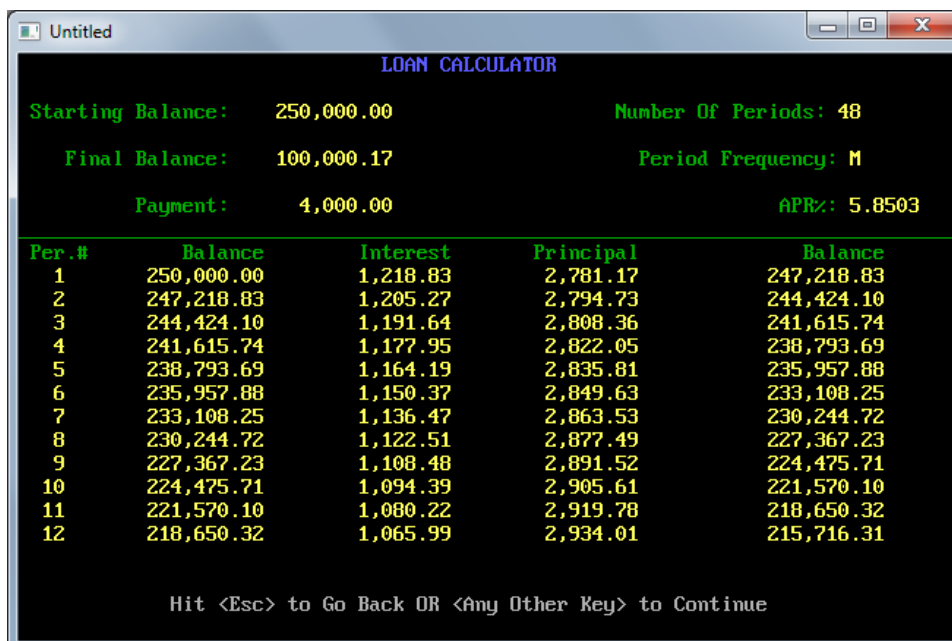
Final Balance: 100000

Payment: 4000

Annual Interest Rate(%): 5.8503

Print to <S>creen OR <F>ile, OR <Esc> to Restart

*Calculating The Annual Interest Rate(%) with 4-decimal precision*



LOAN CALCULATOR

|                   |            |                    |        |
|-------------------|------------|--------------------|--------|
| Starting Balance: | 250,000.00 | Number Of Periods: | 48     |
| Final Balance:    | 100,000.17 | Period Frequency:  | M      |
| Payment:          | 4,000.00   | APR%:              | 5.8503 |

| Per.# | Balance    | Interest | Principal | Balance    |
|-------|------------|----------|-----------|------------|
| 1     | 250,000.00 | 1,218.83 | 2,781.17  | 247,218.83 |
| 2     | 247,218.83 | 1,205.27 | 2,794.73  | 244,424.10 |
| 3     | 244,424.10 | 1,191.64 | 2,808.36  | 241,615.74 |
| 4     | 241,615.74 | 1,177.95 | 2,822.05  | 238,793.69 |
| 5     | 238,793.69 | 1,164.19 | 2,835.81  | 235,957.88 |
| 6     | 235,957.88 | 1,150.37 | 2,849.63  | 233,108.25 |
| 7     | 233,108.25 | 1,136.47 | 2,863.53  | 230,244.72 |
| 8     | 230,244.72 | 1,122.51 | 2,877.49  | 227,367.23 |
| 9     | 227,367.23 | 1,108.48 | 2,891.52  | 224,475.71 |
| 10    | 224,475.71 | 1,094.39 | 2,905.61  | 221,570.10 |
| 11    | 221,570.10 | 1,080.22 | 2,919.78  | 218,650.32 |
| 12    | 218,650.32 | 1,065.99 | 2,934.01  | 215,716.31 |

Hit <Esc> to Go Back OR <Any Other Key> to Continue

*Printing to the First Screen*