# Advanced Programming
# Spring 2013
# Project 5 – Loan Amortization GUI

Design, code, and test a Java program that will:

1) Create the gui shown below, and accept user inputs for the following items.
   a) loan amount (After entering amount, pressing enter key advances cursor to Int Rate)
   b) interest rate (enter as a percentage, eg: 5.25). Advance cursor to Term after entering.
   c) term of the loan in months (cursor stays here after entry)

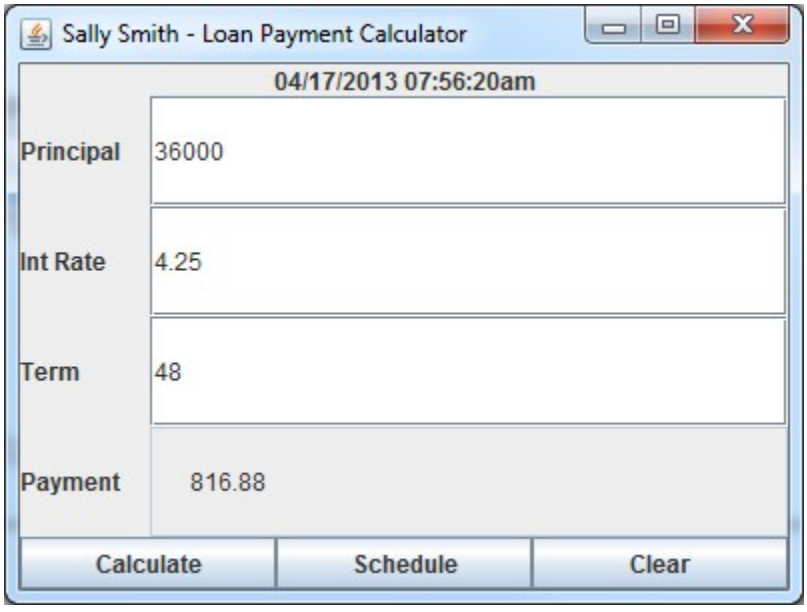
2) Pressing the calculate button or enter key on Term field will calculate and display the loan payment

3) Press the schedule button to produce a loan amortization table as shown in the example below.
   a) output to the screen using printf( )
   b) Note: no file output as was done in the previous project.

4) Press the clear button to clear all fields and reposition cursor to Principal field.

Adhere to all coding style rules.

Source file name: FirstnameLastnameP05LoanGui.java




Rev. 04/23/2013 removed output filename.

```
---------- Capture Output ----------
"C:\Program Files\Java\jdk1.7.0_09\bin\java.exe" SolutionProj05LoanGui

Principal         36,000.00
Interest              4.2550
Term                      36
Payment            1,066.95
```

| Num | Beg Bal | Pmt | Int | Prin Appl | End Bal |
|---|---|---|---|---|---|
| 1 | 36,000.00 | 1,066.95 | 127.65 | 939.30 | 35,060.70 |
| 2 | 35,060.70 | 1,066.95 | 124.32 | 942.63 | 34,118.07 |
| 3 | 34,118.07 | 1,066.95 | 120.98 | 945.97 | 33,172.10 |
| 4 | 33,172.10 | 1,066.95 | 117.62 | 949.33 | 32,222.77 |
| 5 | 32,222.77 | 1,066.95 | 114.26 | 952.69 | 31,270.08 |
| 6 | 31,270.08 | 1,066.95 | 110.88 | 956.07 | 30,314.01 |
| 7 | 30,314.01 | 1,066.95 | 107.49 | 959.46 | 29,354.55 |
| 8 | 29,354.55 | 1,066.95 | 104.09 | 962.86 | 28,391.69 |
| 9 | 28,391.69 | 1,066.95 | 100.67 | 966.28 | 27,425.41 |
| 10 | 27,425.41 | 1,066.95 | 97.25 | 969.70 | 26,455.71 |
| 11 | 26,455.71 | 1,066.95 | 93.81 | 973.14 | 25,482.57 |
| 12 | 25,482.57 | 1,066.95 | 90.36 | 976.59 | 24,505.98 |
| 13 | 24,505.98 | 1,066.95 | 86.89 | 980.06 | 23,525.92 |
| 14 | 23,525.92 | 1,066.95 | 83.42 | 983.53 | 22,542.39 |
| 15 | 22,542.39 | 1,066.95 | 79.93 | 987.02 | 21,555.37 |
| 16 | 21,555.37 | 1,066.95 | 76.43 | 990.52 | 20,564.85 |
| 17 | 20,564.85 | 1,066.95 | 72.92 | 994.03 | 19,570.82 |
| 18 | 19,570.82 | 1,066.95 | 69.39 | 997.56 | 18,573.26 |
| 19 | 18,573.26 | 1,066.95 | 65.86 | 1,001.09 | 17,572.17 |
| 20 | 17,572.17 | 1,066.95 | 62.31 | 1,004.64 | 16,567.53 |
| 21 | 16,567.53 | 1,066.95 | 58.75 | 1,008.20 | 15,559.33 |
| 22 | 15,559.33 | 1,066.95 | 55.17 | 1,011.78 | 14,547.55 |
| 23 | 14,547.55 | 1,066.95 | 51.58 | 1,015.37 | 13,532.18 |
| 24 | 13,532.18 | 1,066.95 | 47.98 | 1,018.97 | 12,513.21 |
| 25 | 12,513.21 | 1,066.95 | 44.37 | 1,022.58 | 11,490.63 |
| 26 | 11,490.63 | 1,066.95 | 40.74 | 1,026.21 | 10,464.42 |
| 27 | 10,464.42 | 1,066.95 | 37.11 | 1,029.84 | 9,434.58 |
| 28 | 9,434.58 | 1,066.95 | 33.45 | 1,033.50 | 8,401.08 |
| 29 | 8,401.08 | 1,066.95 | 29.79 | 1,037.16 | 7,363.92 |
| 30 | 7,363.92 | 1,066.95 | 26.11 | 1,040.84 | 6,323.08 |
| 31 | 6,323.08 | 1,066.95 | 22.42 | 1,044.53 | 5,278.55 |
| 32 | 5,278.55 | 1,066.95 | 18.72 | 1,048.23 | 4,230.32 |
| 33 | 4,230.32 | 1,066.95 | 15.00 | 1,051.95 | 3,178.37 |
| 34 | 3,178.37 | 1,066.95 | 11.27 | 1,055.68 | 2,122.69 |
| 35 | 2,122.69 | 1,066.95 | 7.53 | 1,059.42 | 1,063.27 |
| 36 | 1,063.27 | 1,067.04 | 3.77 | 1,063.27 | 0.00 |
| | Totals | 38,410.29 | 2,410.29 | 36,000.00 | |