UML class

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JFrame

Lab4

MortgageCalculatorController

- view : MortgageCalculatorView
- model : MortgageCalculatorModel

+ main(String[] args) : void
+ MortgageCalculatorController
 (view: MortgageCalculatorView,
 model: MortgageCalculatorModel)
+ actionPerformed(ActionEvent e)
: void

Lab4

MortgageCalculatorView

- principalLoaned: JTextField
 - monthlyPayments: JTextField
 - interestRate: JTextField
 - years: JTextField
- calculateMortgage: JButton
 - monthlyBlendedAmount: JLabel
 - totalMortgageInterest: JLabel
 - totalInterestPrincipal: JLabel
- totalRatio: JLabel
 - averageAnnualInterest: JLabel
 - averageMonthlyInterest: JLabel
- amortizationYearly: JLabel

+MortgageCalculatorView()
+addCalculateListener(...)
+getPrincipal(): String
 +getMonthlyPayments(): String
+getInterestRate(): String
 +getYears(): String
 +setMonthlyBlendedAmount(...)

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lab4

MortgageCalculatorModel

- principal: double
 - annualInterestRate: double
 - monthlyInterestRate: double
- monthlyPayment: double
 - paymentsMade: int

+ MortgageCalculatorModel(principal: double,
monthlyPayment: double,
 annualInterestRate: double, years: int)
+ getPrincipal(): double
 + getMonthlyPayment(): double
+ getAnnualInterestRate(): double
 + getMonthlyInterestRate(): double
 + getPaymentsMade(): double
+ computeMonthlyPayment(): double
 + calculate(): void
+ computeMonthlyBlendedAmount(): double
+ computeTotalMortgageInterest(): double
 + computeTotalInterestPrincipal(): double
+ computeRatioInterestPrincipal(): double
 + computeAverageAnnualInterest(): double
+ computeAverageMonthlyInterest(): double
+ computeAmortizationYearly(): double