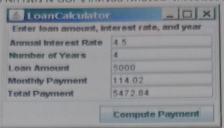
3.ให้ศึกษาและทดลองพิมพ์ตัวอย่างการสร้าง GUI จากตัวอย่างต่อไปนี้ ให้เขียนอธิบายการทำงานในแต่ละบรรทัด



```
import java.awt.*;
import java.awt.event.*;
                                             import
  3 import javax.swing.*;
          javax.swing.border.TitledBorder;
   public class LoanCalculator extends JFrame {
                                                                   - atto class extends I frame
     private JTextField jtfAnnualInterestRate = new JTextField();
     private JTextField jtfNumberOfYears = new JTextField();
private JTextField jtfLoanAmount = new JTextField();
     private JTextField jtfMonthlyPayment = new JTextField();
     private JTextField jtfTotalPayment = new JTextField();
15 private JButton jbtComputeLoan = new JButton ("Compute Payment"); 5500 Compute Payment
   public LoanCalculator() {
      // Panel pl to hold labels and text fields
     JPanel p1 = new JPanel(new GridLayout(5, 2));
     pl.add(new JLabel("Annual Interest Rate"));
     p1.add(jtfAnnualInterestRate);
     pl.add(new JLabel("Number of Years"));
     pl.add(jtfNumberOfYears);
     pl.add(new JLabel("Loan Amount"));
     pl.add(jtfLoanAmount);
    pl.add(new JLabel("Monthly Payment"));
    pl.add(jtfMonthlyPayment);
    pl.add(new JLabel("Total Payment"));
    pl.add(jtfTotalPayment);
                                                                           > 250 Lebels offin
    pl.setBorder (new
      TitledBorder("Enter loan amount, interest rate, and years"));
                                                                         600 वडी 10mg
    // Panel p2 to hold the button
    JPanel p2 = new JPanel(new FlowLayout(FlowLayout.RIGHT));
   p2.add(jbtComputeLoan);
   add(p1, BorderLayout.CENTER);
   add (p2, BorderLayout.SOUTH);
   jbtComputeLoan.addActionListener(new ButtonListener()); and Action Ligrener Will
private class ButtonListener implements ActionListener {
  @Override
  public void actionPerformed(ActionEvent e) {
    double interest =
      Double.parseDouble(jtfAnnualInterestRate.getText());
    int year = Integer.parseInt(jtfNumberOfYears.getText());
    double loanAmount =
      Double.parseDouble(jtfLoanAmount.getText());
```

```
ชื่อ-นามสกุล (โปป กฎาสกัง ชาวก็เพิ่ง รหัสประจำตัวนักศึกษา (0406268008) ปีการศึกษา 2567
                                                            Overrile attim Bertamez
            Loan loan = new Loan(interest, year, loanAmount);
                                                          กำบานกลังลาไปกรจกานใหล่ a
           jtfMonthlyPayment.setText(String.format("%.2f",
           loan.getMonthlyPayment()));
jtfTotalPayment.setText(String.format("%.2f",
             loan.getTotalPayment()));
       public static void main(String[] args) {
        LoanCalculator frame = new LoanCalculator();
        frame.pack();
        frame.setTitle("LoanCalculator");
                                                              of Frame GUI harolon
        frame.setLocationRelativeTo(null); // Center the frame
        frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
        frame.setVisible(true);
 70 }
 1 public class Loan {
    private double annualInterestRate;
                                      } mula attributes
    private int numberOfYears;
    private double loanAmount;
    private java.util.Date loanDate;
    /** Default constructor */
    public Loan() {
    this (2.5, 1, 1000); { Constructor Chaining
   /** Construct a loan with specified annual interest rate,
   public Loan (double annualInterestRate, int numberOfYears, )
     double loanAmount) {
     this.annualInterestRate = annualInterestRate;
                                                                setter Constructor
    this.numberOfYears = numberOfYears;
    this.loanAmount = loanAmount;
    loanDate = new java.util.Date();
  /** Return annualInterestRate */
 public double getAnnualInterestRate() { getter Method
  return annualInterestRate;
 /** Set a new annualInterestRate */
public void setAnnualInterestRate (double annualInterestRate) { Seffer 12 half
  this.annualInterestRate = annualInterestRate;
                                    getter Method
public int getNumberOfYears() {
  return numberOfYears;
public void setNumberOfYears(int numberOfYears) {
                                                    setter Method
  this.numberOfYears = numberOfYears;
```