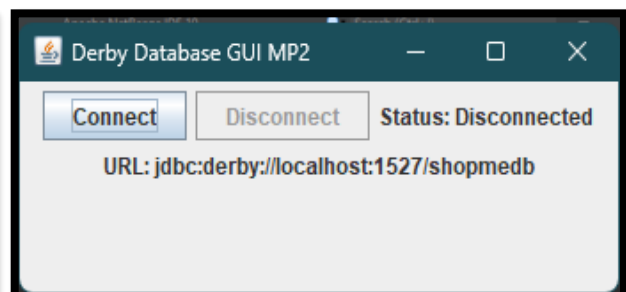
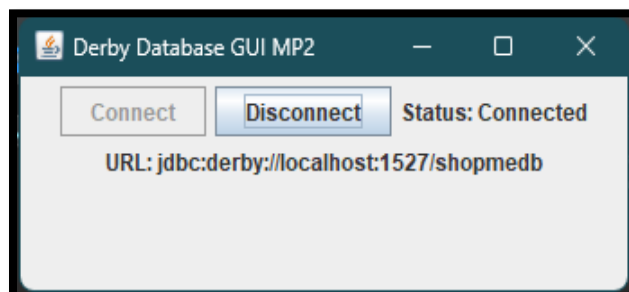
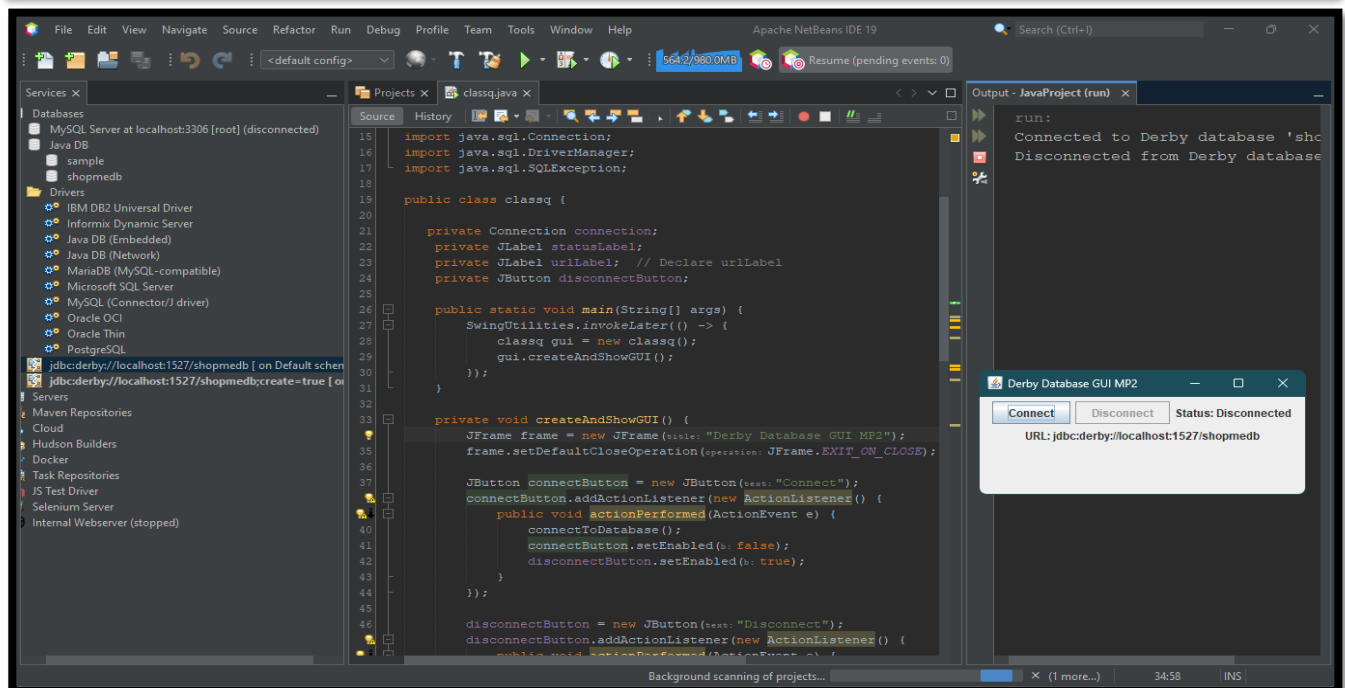
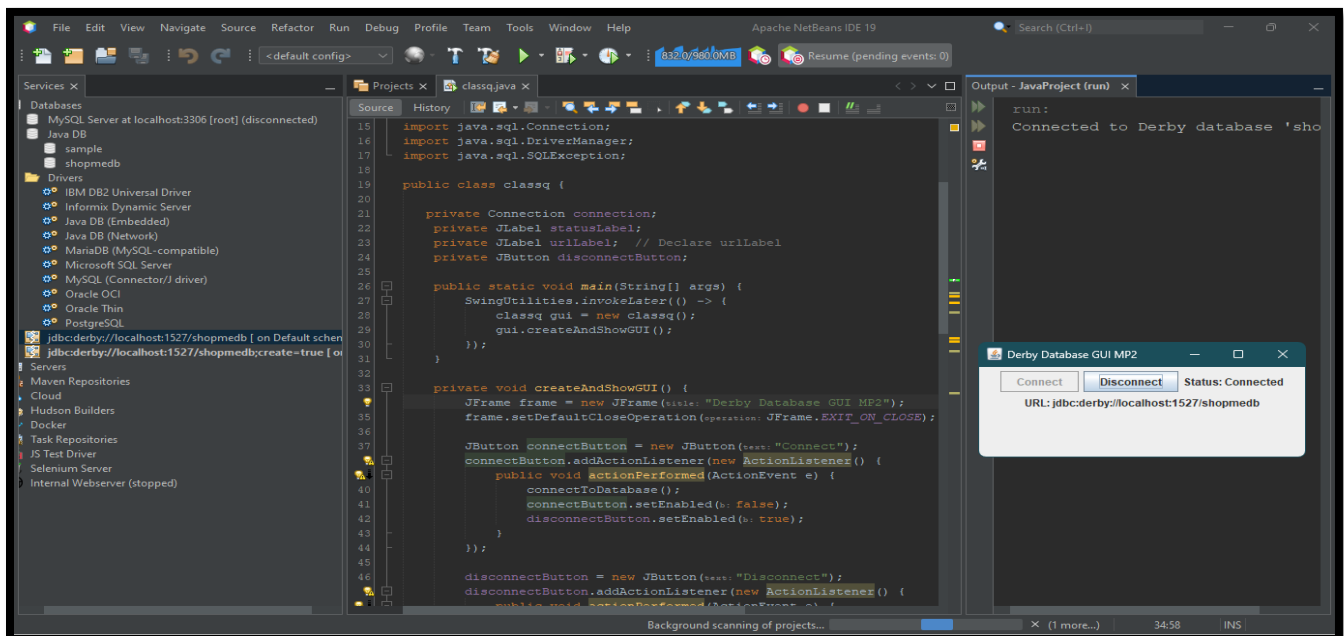


SCREENSHOTS OF CODES AND OUTPUTS



```
package javaproject;

/**
 *
 * @author Cicat, Rean joy
 */
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class classq {

    private Connection connection;
    private JLabel statusLabel;
    private JLabel urlLabel; // Declare urlLabel
    private JButton disconnectButton;

    public static void main(String[] args) {
        SwingUtilities.invokeLater(() -> {
            classq gui = new classq();
            gui.createAndShowGUI();
        });
    }
}
```

```
private void createAndShowGUI() {  
    JFrame frame = new JFrame("Derby Database GUI MP2");  
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
  
    JButton connectButton = new JButton("Connect");  
    connectButton.addActionListener(new ActionListener() {  
        public void actionPerformed(ActionEvent e) {  
            connectToDatabase();  
            connectButton.setEnabled(false);  
            disconnectButton.setEnabled(true);  
        }  
    });  
  
    disconnectButton = new JButton("Disconnect");  
    disconnectButton.addActionListener(new ActionListener() {  
        public void actionPerformed(ActionEvent e) {  
            disconnectFromDatabase();  
            connectButton.setEnabled(true);  
            disconnectButton.setEnabled(false);  
        }  
    });  
    disconnectButton.setEnabled(false);  
  
    statusLabel = new JLabel("Status: Disconnected");  
    urlLabel = new JLabel("URL: jdbc:derby://localhost:1527/shopmedb"); // Initialize the URL label  
  
    JPanel panel = new JPanel(new FlowLayout());  
    panel.add(connectButton);  
    panel.add(disconnectButton);
```

```
panel.add(statusLabel);

panel.add(urlLabel); // Add the URL label to the panel


frame.add(panel);

frame.pack();

frame.setVisible(true);
}


private void connectToDatabase() {

    try {

        connection = DriverManager.getConnection("jdbc:derby://localhost:1527/shopmedb");

        statusLabel.setText("Status: Connected");

        System.out.println("Connected to Derby database 'shopmedb'");

    } catch (SQLException e) {

        statusLabel.setText("Status: Connection Error");

        System.err.println("Connection error: " + e.getMessage());

    }

}


private void disconnectFromDatabase() {

    try {

        if (connection != null) {

            connection.close();

            statusLabel.setText("Status: Disconnected");

            System.out.println("Disconnected from Derby database 'shopmedb'");

        }

    } catch (SQLException e) {

        statusLabel.setText("Status: Disconnection Error");

        System.err.println("Disconnection error: " + e.getMessage());

    }

}
```

CICAT, REAN JOY S.
BSIT-S-2A-T

MACHINE PROBLEM NO.2
OCTOBER 31, 2023

}

}

}