RABINO, MICO T.

BSIT-S-2A

G2 MP

```
CODE:
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```
*/
package gui;
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 Gui {
  public static void main(String[] args) {
     SwingUtilities.invokeLater(() -> {
       JDBCConnectionGUI gui = new JDBCConnectionGUI();
       gui.setVisible(true);
    });
  }
  public static class JDBCConnectionGUI extends JFrame {
    private JLabel statusLabel;
    private JLabel dbLabel;
```

```
private JButton connectButton;
private JButton disconnectButton;
private Connection connection;
public JDBCConnectionGUI() {
  setTitle("JDBC Connection GUI");
  setSize(400, 200);
  setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
  setLayout(new BorderLayout());
  setBackground(Color.WHITE);
  JPanel statusPanel = new JPanel();
  statusPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
  statusLabel = new JLabel("Connection status: Not Connected");
  statusLabel.setHorizontalAlignment(SwingConstants.CENTER);
  statusLabel.setFont(new Font("Arial", Font.BOLD, 16));
  statusPanel.add(statusLabel);
  statusPanel.setBackground(Color.LIGHT_GRAY);
  dbLabel = new JLabel("Connected to: ");
  dbLabel.setHorizontalAlignment(SwingConstants.CENTER);
  dbLabel.setFont(new Font("Arial", Font.PLAIN, 14));
  JPanel buttonPanel = new JPanel();
  buttonPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
  connectButton = new JButton("Connect to Database");
  disconnectButton = new JButton("Disconnect from Database");
  disconnectButton.setEnabled(false);
```

```
connectButton.setBackground(Color.GREEN);
  disconnectButton.setBackground(Color.RED);
  connectButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
       connectToDatabase();
    }
  });
  disconnectButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
       disconnectFromDatabase();
    }
  });
  buttonPanel.add(connectButton);
  buttonPanel.add(disconnectButton);
  add(statusPanel, BorderLayout.CENTER);
  add(dbLabel, BorderLayout.NORTH);
  add(buttonPanel, BorderLayout.SOUTH);
private void connectToDatabase() {
  String jdbcUrl = "jdbc:derby:C:/Derby/mico_db";
  String username = "root";
  String password = "";
```

}

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try {
       connection = DriverManager.getConnection(jdbcUrl, username, password);
       statusLabel.setText("Connection status: Connected");
       connectButton.setEnabled(false);
       disconnectButton.setEnabled(true);
        java.sql.DatabaseMetaData metaData = connection.getMetaData();
       dbLabel.setText("Connected to: " + metaData.getURL());
     } catch (SQLException e) {
       statusLabel.setText("Connection status: Connection Failed");
       e.printStackTrace();
     }
  }
  private void disconnectFromDatabase() {
     if (connection != null) {
       try {
          connection.close();
          statusLabel.setText("Connection status: Disconnected");
          connectButton.setEnabled(true);
          disconnectButton.setEnabled(false);
          dbLabel.setText("Connected to: ");
       } catch (SQLException e) {
          e.printStackTrace();
       }
     }
}
```