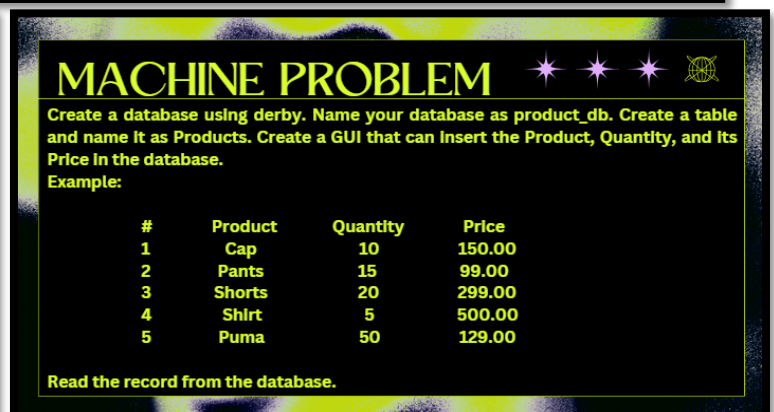
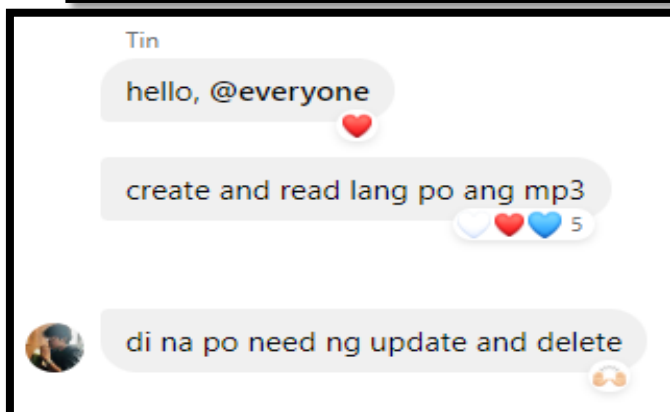
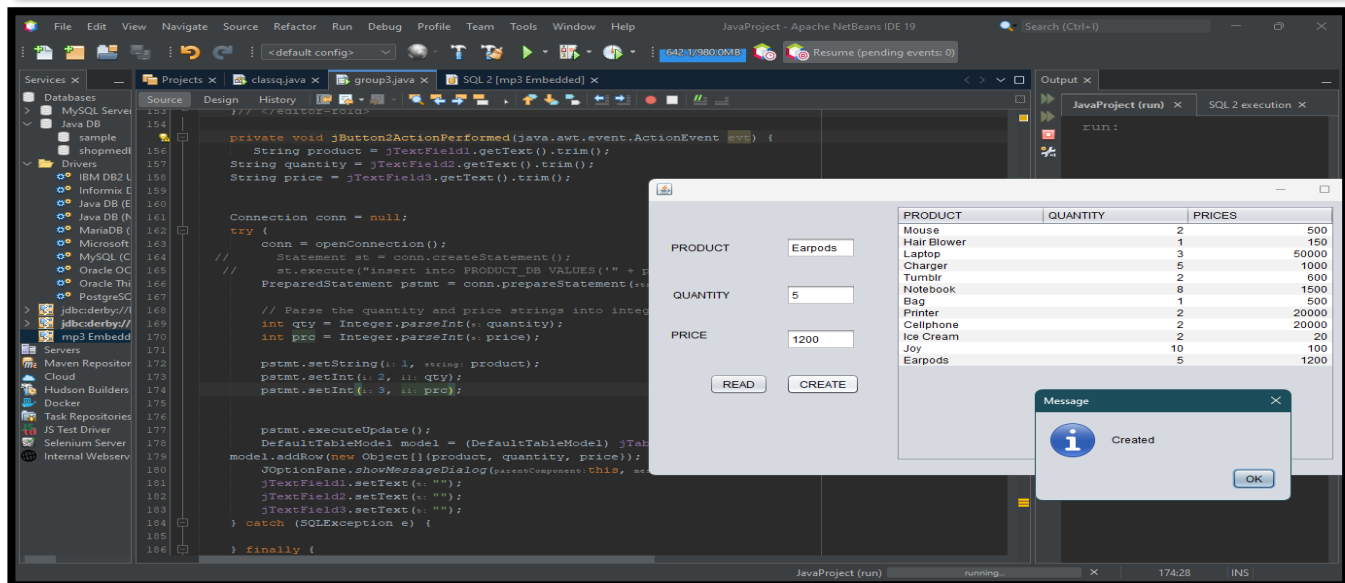
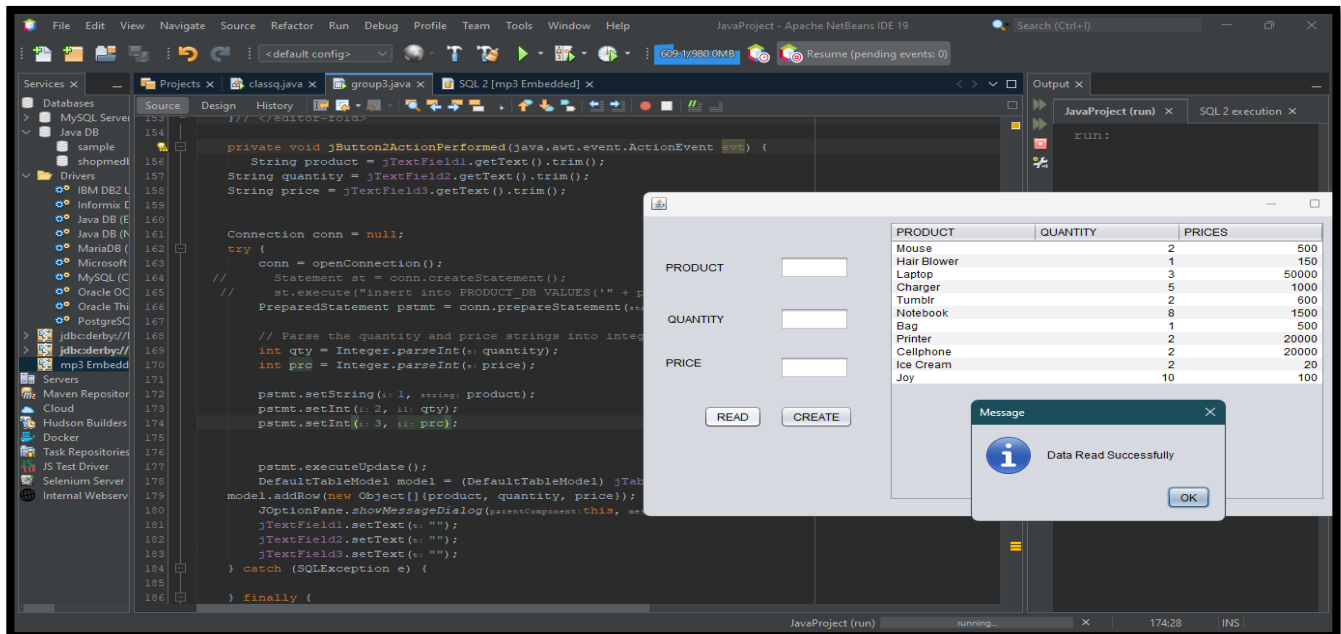


SCREENSHOTS OF CODES AND OUTPUTS



```
package javaproject;
```

```
/**
```

```
*
```

```
* @author Cicat, Rean joy
```

```
*/
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
import java.sql.Statement;
```

```
import javax.swing.JOptionPane;
```

```
import javax.swing.table.DefaultTableModel;
```

```
import java.sql.PreparedStatement;
```

```
public class group3 extends javax.swing.JFrame {
```

```
    /** Creates new form group3 */
```

```
    public group3() {
```

```
        initComponents();
```

```
    }
```

```
    /** This method is called from within the constructor to
```

```
        * initialize the form.
```

```
        * WARNING: Do NOT modify this code. The content of this method is
```

```
        * always regenerated by the Form Editor.
```

```
        */
```

```
    @SuppressWarnings("unchecked")
```

```
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jTextField1 = new javax.swing.JTextField();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("PRODUCT");

    jLabel2.setText("QUANTITY");

    jLabel3.setText("PRICE");

    jButton1.setText("READ");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jButton2.setText("CREATE");
```

```
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});  
  
jTextField1.setText("jTextField1");  
  
jTextField2.setText("jTextField2");  
  
jTextField3.setText("jTextField3");  
  
jTable1.setModel(new javax.swing.table.DefaultTableModel(  
    new Object [][] {  
  
    },  
    new String [] {  
        "PRODUCT", "QUANTITY", "PRICES"  
    }  
){  
    Class[] types = new Class [] {  
        java.lang.String.class, java.lang.Integer.class, java.lang.Integer.class  
    };  
  
    public Class getColumnClass(int columnIndex) {  
        return types [columnIndex];  
    }  
});  
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
```

```
public void mouseClicked(java.awt.event.MouseEvent evt) {  
    jTable1MouseClicked(evt);  
}  
});  
jScrollPane1.setViewportView(jTable1);  
  
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createSequentialGroup()  
                    .addGap(23, 23, 23)  
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .addGroup(layout.createSequentialGroup()  
                            .addComponent(jLabel2)  
                            .addComponent(jLabel1))  
                        .addComponent(jLabel3))  
                    .addGap(58, 58, 58))  
                .addGroup(layout.createSequentialGroup()  
                    .addComponent(jButton1)  
                    .addGap(18, 18, 18)))  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createSequentialGroup()  
                    .addComponent(jButton2)  
                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGap(37, 37, 37)  
  
.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 452,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addContainerGap(58, Short.MAX_VALUE)  
  
);  
layout.setVerticalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(layout.createSequentialGroup()  
        .addGap(49, 49, 49)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel1)  
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(36, 36, 36)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jLabel2)  
            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(32, 32, 32)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addComponent(jLabel3)  
            .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
            .addComponent(jButton1)
```

```
.addComponent(jButton2))

.addGap(109, 109, 109))

.addGroup(layout.createSequentialGroup())

.addContainerGap()

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 346,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addContainerGap(19, Short.MAX_VALUE))

);

pack();
} // </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    String product = jTextField1.getText().trim();

    String quantity = jTextField2.getText().trim();

    String price = jTextField3.getText().trim();

    Connection conn = null;

    try {

        conn = openConnection();

        // Statement st = conn.createStatement();

        // st.execute("insert into PRODUCT_DB VALUES('" + product + "','" + quantity + "','" + price + "')");

        PreparedStatement pstmt = conn.prepareStatement("INSERT INTO PRODUCT_DB (PRODUCT,
QUANTITY, PRICE) VALUES (?, ?, ?)");

        // Parse the quantity and price strings into integers

        int qty = Integer.parseInt(quantity);

        int prc = Integer.parseInt(price);
```

```
pstmt.setString(1, product);

pstmt.setInt(2, qty);

pstmt.setInt(3, prc);


pstmt.executeUpdate();

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();
model.addRow(new Object[]{product, quantity, price});

JOptionPane.showMessageDialog(this, "Created");

jTextField1.setText("");
jTextField2.setText("");
jTextField3.setText("");
} catch (SQLException e) {

} finally {

    closeConnection(conn);
}
}


private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {

    DefaultTableModel model = (DefaultTableModel) jTable1.getModel();
    int selectedRowIndex = jTable1.getSelectedRow();
    jTextField1.setText(model.getValueAt(selectedRowIndex, 0).toString());
    jTextField2.setText(model.getValueAt(selectedRowIndex, 1).toString());
    jTextField3.setText(model.getValueAt(selectedRowIndex, 2).toString());
}


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```



```
        Connection conn = null;

    try {

        conn = openConnection();

        Statement st = conn.createStatement();

        java.sql.ResultSet rs = st.executeQuery("SELECT * FROM PRODUCT_DB");


        DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

        model.setRowCount(0); // Clear the existing table data


        while (rs.next()) {

            String product = rs.getString("PRODUCT");

            String quantity = rs.getString("QUANTITY");

            String price = rs.getString("PRICE");

            model.addRow(new Object[]{product, quantity, price});

        }


        JOptionPane.showMessageDialog(this, "Data Read Successfully");

    } catch (SQLException e) {

        // Handle the exception here

        e.printStackTrace();

    } finally {

        closeConnection(conn);

    }

}

//CONNECTION CODE

private Connection openConnection() throws SQLException {

    return DriverManager.getConnection("jdbc:derby:C:/Derby/mp3");

}
```

```
private void closeConnection(Connection conn) {  
    if (conn != null) {  
        try {  
            conn.close();  
        } catch (SQLException e) {  
  
        }  
    }  
}  
  
/**  
 * @param args the command line arguments  
 */  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html  
     */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
                javax.swing.UIManager.setLookAndFeel(info.getClassName());  
                break;  
            }  
        }  
    }  
    } catch (ClassNotFoundException ex) {  
        java.util.logging.Logger.getLogger(group3.class.getName()).log(java.util.logging.Level.SEVERE, null,  
ex);
```

```
        } catch (InstantiationException ex) {  
            java.util.logging.Logger.getLogger(group3.class.getName()).log(java.util.logging.Level.SEVERE, null,  
ex);  
        } catch (IllegalAccessException ex) {  
            java.util.logging.Logger.getLogger(group3.class.getName()).log(java.util.logging.Level.SEVERE, null,  
ex);  
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
            java.util.logging.Logger.getLogger(group3.class.getName()).log(java.util.logging.Level.SEVERE, null,  
ex);  
        }  
    }  
    //</editor-fold>
```

```
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new group3().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;
```

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```
private javax.swing.JTextField jTextField3;  
  
// End of variables declaration  
  
}
```