**package java\_project\_1\_2;**

**public class Product {**

**private int id;**

**private String name;**

**private float price;**

**private String addDate;**

**private byte[] picture;**

**public Product(int pid, String pname, float pprice, String pAddDate, byte[] pimg)**

**{**

**this.id = pid;**

**this.name = pname;**

**this.price = pprice;**

**this.addDate = pAddDate;**

**this.picture = pimg;**

**}**

**public int getId()**

**{**

**return id;**

**}**

**public String getName()**

**{**

**return name;**

**}**

**public float getPrice()**

**{**

**return price;**

**}**

**public String getAddDate()**

**{**

**return  addDate;**

**}**

**public byte[] getImage()**

**{**

**return picture;**

**}**

**}**

**EndProduct Class**

package java\_project\_1\_2;  
  
import java.awt.Image;  
import java.io.File;  
import java.io.FileInputStream;  
import java.io.InputStream;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.sql.Statement;  
import java.text.ParseException;  
import java.text.SimpleDateFormat;  
import java.util.ArrayList;  
import java.util.Date;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.imageio.ImageIO;  
import javax.swing.ImageIcon;  
import javax.swing.JFileChooser;  
import javax.swing.JOptionPane;  
import javax.swing.filechooser.FileNameExtensionFilter;  
import javax.swing.table.DefaultTableModel;  
  
  
/\*\*  
 \*  
 \* @author 1BestCsharp.blogspot.com  
 \*/  
public class Main\_Window extends javax.swing.JFrame {  
  
    /\*\*  
     \* Creates new form Main\_Window  
     \*/  
    public Main\_Window() {  
        initComponents();  
      **Show\_Products\_In\_JTable();**  
    }  
  
**String ImgPath = null;**  
**int pos = 0;**  
  
**// Function To Connect To MySQL Database**  
   **public Connection getConnection()**  
**{**  
**Connection con = null;**  
  
**try {**  
**con = DriverManager.getConnection("jdbc:mysql://localhost/products\_db2","root","");**  
**return con;**  
**} catch (SQLException ex) {**  
**Logger.getLogger(Main\_Window.class.getName()).log(Level.SEVERE, null, ex);**  
**return null;**  
**}**  
**}**  
  
**// Check Input Fields**  
**public boolean checkInputs()**  
**{**  
**if(**  
**txt\_name.getText() == null**  
**|| txt\_price.getText() == null**  
**|| txt\_AddDate.getDate() == null**  
**){**  
**return false;**  
**}**  
**else{**  
**try{**  
**Float.parseFloat(txt\_price.getText());**  
**return true;**  
**}catch(Exception ex)**  
**{**  
**return false;**  
**}**  
**}**  
**}**  
  
  
**// Function To Resize The Image To Fit Into JLabel**  
**public ImageIcon ResizeImage(String imagePath, byte[] pic)**  
**{**  
**ImageIcon myImage = null;**  
  
**if(imagePath != null)**  
**{**  
**myImage = new ImageIcon(imagePath);**  
**}else{**  
**myImage = new ImageIcon(pic);**  
**}**  
  
**Image img = myImage.getImage();**  
**Image img2 = img.getScaledInstance(lbl\_image.getWidth(), lbl\_image.getHeight(), Image.SCALE\_SMOOTH);**  
**ImageIcon image = new ImageIcon(img2);**  
**return image;**  
  
**}**  
  
**// Display Data In JTable:**  
**//      1 - Fill ArrayList With The Data**  
  
**public ArrayList<Product> getProductList()**  
**{**  
**ArrayList<Product> productList  = new ArrayList<Product>();**  
**Connection con = getConnection();**  
**String query = "SELECT \* FROM products";**  
  
**Statement st;**  
**ResultSet rs;**  
  
**try {**  
  
**st = con.createStatement();**  
**rs = st.executeQuery(query);**  
**Product product;**  
  
**while(rs.next())**  
**{**  
**product = new Product(rs.getInt("id"),rs.getString("name"),Float.parseFloat(rs.getString("price")),rs.getString("add\_date"),rs.getBytes("image"));**  
**productList.add(product);**  
**}**  
  
**} catch (SQLException ex) {**  
**Logger.getLogger(Main\_Window.class.getName()).log(Level.SEVERE, null, ex);**  
**}**  
  
**return productList;**  
  
**}**  
  
  
**//      2 - Populate The JTable**  
  
**public void Show\_Products\_In\_JTable()**  
**{**  
**ArrayList<Product> list = getProductList();**  
**DefaultTableModel model = (DefaultTableModel)JTable\_Products.getModel();**  
**// clear jtable content**  
**model.setRowCount(0);**  
**Object[] row = new Object[4];**  
**for(int i = 0; i < list.size(); i++)**  
**{**  
**row[0] = list.get(i).getId();**  
**row[1] = list.get(i).getName();**  
**row[2] = list.get(i).getPrice();**  
**row[3] = list.get(i).getAddDate();**  
  
**model.addRow(row);**  
**}**  
  
**}**  
  
**// Show Data In Inputs**  
**public void ShowItem(int index)**  
**{**  
**txt\_id.setText(Integer.toString(getProductList().get(index).getId()));**  
**txt\_name.setText(getProductList().get(index).getName());**  
**txt\_price.setText(Float.toString(getProductList().get(index).getPrice()));**  
  
**try {**  
**Date addDate = null;**  
**addDate = new SimpleDateFormat("yyyy-MM-dd").parse((String)getProductList().get(index).getAddDate());**  
**txt\_AddDate.setDate(addDate);**  
**} catch (ParseException ex) {**  
**Logger.getLogger(Main\_Window.class.getName()).log(Level.SEVERE, null, ex);**  
**}**  
  
**lbl\_image.setIcon(ResizeImage(null, getProductList().get(index).getImage()));**  
**}**  
  
  
    /\*\*  
     \* 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() {  
  
        jPanel1 = new javax.swing.JPanel();  
        jLabel1 = new javax.swing.JLabel();  
        jLabel2 = new javax.swing.JLabel();  
        jLabel3 = new javax.swing.JLabel();  
        jLabel4 = new javax.swing.JLabel();  
        jLabel5 = new javax.swing.JLabel();  
        txt\_name = new javax.swing.JTextField();  
        txt\_id = new javax.swing.JTextField();  
        txt\_price = new javax.swing.JTextField();  
        txt\_AddDate = new com.toedter.calendar.JDateChooser();  
        lbl\_image = new javax.swing.JLabel();  
        jScrollPane1 = new javax.swing.JScrollPane();  
        JTable\_Products = new javax.swing.JTable();  
        Btn\_Choose\_Image = new javax.swing.JButton();  
        jButton2 = new javax.swing.JButton();  
        jButton3 = new javax.swing.JButton();  
        Btn\_Insert = new javax.swing.JButton();  
        Btn\_First = new javax.swing.JButton();  
        Btn\_Previous = new javax.swing.JButton();  
        Btn\_Last = new javax.swing.JButton();  
        Btn\_Next = new javax.swing.JButton();  
  
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
        jPanel1.setBackground(new java.awt.Color(255, 255, 204));  
  
        jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
        jLabel1.setText("ID:");  
  
        jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
        jLabel2.setText("Name:");  
  
        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
        jLabel3.setText("Price:");  
  
        jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
        jLabel4.setText("Add Date:");  
  
        jLabel5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
        jLabel5.setText("Image:");  
  
        txt\_name.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        txt\_name.setPreferredSize(new java.awt.Dimension(59, 50));  
  
        txt\_id.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        txt\_id.setEnabled(false);  
        txt\_id.setPreferredSize(new java.awt.Dimension(59, 50));  
  
        txt\_price.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        txt\_price.setPreferredSize(new java.awt.Dimension(59, 50));  
  
        txt\_AddDate.setDateFormatString("yyyy-MM-dd");  
        txt\_AddDate.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N  
  
        lbl\_image.setBackground(new java.awt.Color(204, 255, 255));  
        lbl\_image.setOpaque(true);  
  
        JTable\_Products.setModel(new javax.swing.table.DefaultTableModel(  
            new Object [][] {  
  
            },  
            new String [] {  
                "ID", "Name", "Price", "Add Date"  
            }  
        ));  
        JTable\_Products.addMouseListener(new java.awt.event.MouseAdapter() {  
            public void mouseClicked(java.awt.event.MouseEvent evt) {  
                JTable\_ProductsMouseClicked(evt);  
            }  
        });  
        jScrollPane1.setViewportView(JTable\_Products);  
  
        Btn\_Choose\_Image.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N  
        Btn\_Choose\_Image.setText("Choose Image");  
        Btn\_Choose\_Image.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_Choose\_ImageActionPerformed(evt);  
            }  
        });  
  
        jButton2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/Renew.png"))); // NOI18N  
        jButton2.setText("Update");  
        jButton2.setIconTextGap(15);  
        jButton2.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                jButton2ActionPerformed(evt);  
            }  
        });  
  
        jButton3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        jButton3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/delete.png"))); // NOI18N  
        jButton3.setText("Delete");  
        jButton3.setIconTextGap(15);  
        jButton3.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                jButton3ActionPerformed(evt);  
            }  
        });  
  
        Btn\_Insert.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        Btn\_Insert.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/add.png"))); // NOI18N  
        Btn\_Insert.setText("Insert");  
        Btn\_Insert.setIconTextGap(15);  
        Btn\_Insert.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_InsertActionPerformed(evt);  
            }  
        });  
  
        Btn\_First.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        Btn\_First.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/first.png"))); // NOI18N  
        Btn\_First.setText("First");  
        Btn\_First.setIconTextGap(15);  
        Btn\_First.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_FirstActionPerformed(evt);  
            }  
        });  
  
        Btn\_Previous.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        Btn\_Previous.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/previous.png"))); // NOI18N  
        Btn\_Previous.setText("Previous");  
        Btn\_Previous.setIconTextGap(15);  
        Btn\_Previous.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_PreviousActionPerformed(evt);  
            }  
        });  
  
        Btn\_Last.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        Btn\_Last.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/last.png"))); // NOI18N  
        Btn\_Last.setText("Last");  
        Btn\_Last.setIconTextGap(15);  
        Btn\_Last.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_LastActionPerformed(evt);  
            }  
        });  
  
        Btn\_Next.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
        Btn\_Next.setIcon(new javax.swing.ImageIcon(getClass().getResource("/JAVA\_VIDEOS\_TUTORIALS/icons/next.png"))); // NOI18N  
        Btn\_Next.setText("Next");  
        Btn\_Next.setIconTextGap(15);  
        Btn\_Next.addActionListener(new java.awt.event.ActionListener() {  
            public void actionPerformed(java.awt.event.ActionEvent evt) {  
                Btn\_NextActionPerformed(evt);  
            }  
        });  
  
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
        jPanel1.setLayout(jPanel1Layout);  
        jPanel1Layout.setHorizontalGroup(  
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(jPanel1Layout.createSequentialGroup()  
                .addGap(33, 33, 33)  
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                    .addComponent(jLabel1)  
                    .addComponent(jLabel2)  
                    .addComponent(jLabel3)  
                    .addComponent(jLabel4)  
                    .addComponent(jLabel5))  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
                    .addComponent(Btn\_Choose\_Image, javax.swing.GroupLayout.DEFAULT\_SIZE, 227, Short.MAX\_VALUE)  
                    .addComponent(txt\_AddDate, javax.swing.GroupLayout.PREFERRED\_SIZE, 125, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(txt\_id, javax.swing.GroupLayout.PREFERRED\_SIZE, 109, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(txt\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
                    .addComponent(txt\_price, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
                    .addComponent(lbl\_image, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                .addContainerGap())  
            .addGroup(jPanel1Layout.createSequentialGroup()  
                .addContainerGap()  
                .addComponent(Btn\_Insert)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                .addComponent(jButton2)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                .addComponent(jButton3)  
                .addGap(45, 45, 45)  
                .addComponent(Btn\_First)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                .addComponent(Btn\_Next)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                .addComponent(Btn\_Previous)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                .addComponent(Btn\_Last)  
                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
        );  
        jPanel1Layout.setVerticalGroup(  
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(jPanel1Layout.createSequentialGroup()  
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addGap(31, 31, 31)  
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                            .addComponent(txt\_id, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                            .addComponent(jLabel1))  
                        .addGap(9, 9, 9)  
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                            .addComponent(txt\_name, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                            .addComponent(jLabel2))  
                        .addGap(14, 14, 14)  
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                            .addComponent(jLabel3)  
                            .addComponent(txt\_price, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE))  
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addGroup(jPanel1Layout.createSequentialGroup()  
                                .addGap(21, 21, 21)  
                                .addComponent(jLabel4))  
                            .addGroup(jPanel1Layout.createSequentialGroup()  
                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
                                .addComponent(txt\_AddDate, javax.swing.GroupLayout.PREFERRED\_SIZE, 41, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
                        .addGap(18, 18, 18)  
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                            .addComponent(jLabel5)  
                            .addComponent(lbl\_image, javax.swing.GroupLayout.PREFERRED\_SIZE, 167, javax.swing.GroupLayout.PREFERRED\_SIZE))  
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
                        .addComponent(Btn\_Choose\_Image, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE))  
                    .addGroup(jPanel1Layout.createSequentialGroup()  
                        .addContainerGap()  
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 54, Short.MAX\_VALUE)  
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                    .addComponent(Btn\_Insert, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(Btn\_First, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(Btn\_Next, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(Btn\_Previous, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
                    .addComponent(Btn\_Last, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE))  
                .addGap(31, 31, 31))  
        );  
  
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
        getContentPane().setLayout(layout);  
        layout.setHorizontalGroup(  
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
        );  
        layout.setVerticalGroup(  
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
        );  
  
        pack();  
    }// </editor-fold>                       
  
**// Button Browse Image From Your Computer**  
**private void Btn\_Choose\_ImageActionPerformed(java.awt.event.ActionEvent evt) {**  
  
**JFileChooser file = new JFileChooser();**  
**file.setCurrentDirectory(new File(System.getProperty("user.home")));**  
  
**FileNameExtensionFilter filter = new FileNameExtensionFilter("\*.images", "jpg","png");**  
**file.addChoosableFileFilter(filter);**  
**int result = file.showSaveDialog(null);**  
**if(result == JFileChooser.APPROVE\_OPTION)**  
**{**  
**File selectedFile = file.getSelectedFile();**  
**String path = selectedFile.getAbsolutePath();**  
**lbl\_image.setIcon(ResizeImage(path, null));**  
**ImgPath = path;**  
**}**  
**else{**  
**System.out.println("No File Selected");**  
**}**  
  
**}**  
 **// Button Insert Data Into MySQL Database**  
**// 1 - Check If The imgPath Is Not Null And The Inputs Are Not Empty**  
**// 2 - Insert The Data**  
**private void Btn\_InsertActionPerformed(java.awt.event.ActionEvent evt) {**  
**if(checkInputs() && ImgPath != null)**  
**{**  
**try {**  
**Connection con = getConnection();**  
**PreparedStatement ps = con.prepareStatement("INSERT INTO products(name,price,add\_date,image)"**  
**+ "values(?,?,?,?) ");**  
**ps.setString(1, txt\_name.getText());**  
**ps.setString(2, txt\_price.getText());**  
  
**SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");**  
**String addDate = dateFormat.format(txt\_AddDate.getDate());**  
**ps.setString(3, addDate);**  
  
**InputStream img = new FileInputStream(new File(ImgPath));**  
**ps.setBlob(4, img);**  
**ps.executeUpdate();**  
**Show\_Products\_In\_JTable();**  
  
**JOptionPane.showMessageDialog(null, "Data Inserted");**  
**} catch (Exception ex) {**  
**JOptionPane.showMessageDialog(null, ex.getMessage());**  
**}**  
**}else{**  
**JOptionPane.showMessageDialog(null, "One Or More Field Are Empty");**  
**}**  
  
**// only for test**  
**System.out.println("Name => "+txt\_name.getText());**  
**System.out.println("Price => "+txt\_price.getText());**  
**System.out.println("Image => "+ImgPath);**  
**}**  
 **// Button Update Data From MySQL Database**  
**// 1 - Check If Inputs Is Not Null**  
**//     If The imgPath Is Not Null Update Also The Image**  
**//     else don't update the Image**  
**// 2 - Update The Data**  
**private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {**  
  
**if(checkInputs() && txt\_id.getText() != null)**  
**{**  
**String UpdateQuery = null;**  
**PreparedStatement ps = null;**  
**Connection con = getConnection();**  
  
**// update without image**  
**if(ImgPath == null)**  
**{**  
**try {**  
**UpdateQuery = "UPDATE products SET name = ?, price = ?"**  
**+ ", add\_date = ? WHERE id = ?";**  
**ps = con.prepareStatement(UpdateQuery);**  
  
**ps.setString(1, txt\_name.getText());**  
**ps.setString(2, txt\_price.getText());**  
  
**SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");**  
**String addDate = dateFormat.format(txt\_AddDate.getDate());**  
  
**ps.setString(3, addDate);**  
  
**ps.setInt(4, Integer.parseInt(txt\_id.getText()));**  
  
**ps.executeUpdate();**  
**Show\_Products\_In\_JTable();**  
**JOptionPane.showMessageDialog(null, "Product Updated");**  
  
**} catch (SQLException ex) {**  
**Logger.getLogger(Main\_Window.class.getName()).log(Level.SEVERE, null, ex);**  
**}**  
  
**}**  
**// update With Image**  
**else{**  
**try{**  
**InputStream img = new FileInputStream(new File(ImgPath));**  
  
**UpdateQuery = "UPDATE products SET name = ?, price = ?"**  
**+ ", add\_date = ?, image = ? WHERE id = ?";**  
  
**ps = con.prepareStatement(UpdateQuery);**  
  
**ps.setString(1, txt\_name.getText());**  
**ps.setString(2, txt\_price.getText());**  
  
**SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");**  
**String addDate = dateFormat.format(txt\_AddDate.getDate());**  
  
**ps.setString(3, addDate);**  
  
**ps.setBlob(4, img);**  
  
**ps.setInt(5, Integer.parseInt(txt\_id.getText()));**  
  
**ps.executeUpdate();**  
**Show\_Products\_In\_JTable();**  
**JOptionPane.showMessageDialog(null, "Product Updated");**  
  
**}catch(Exception ex)**  
**{**  
**JOptionPane.showMessageDialog(null, ex.getMessage());**  
**}**  
**}**  
**}else{**  
**JOptionPane.showMessageDialog(null, "One Or More Fields Are Empty Or Wrong");**  
**}**  
  
**}**  
 **// Button Delete The Data From MySQL Database**  
**private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {**  
  
**if(!txt\_id.getText().equals(""))**  
**{**  
**try {**  
**Connection con = getConnection();**  
**PreparedStatement ps = con.prepareStatement("DELETE FROM products WHERE id = ?");**  
**int id = Integer.parseInt(txt\_id.getText());**  
**ps.setInt(1, id);**  
**ps.executeUpdate();**  
**Show\_Products\_In\_JTable();**  
**JOptionPane.showMessageDialog(null, "Product Deleted");**  
**} catch (SQLException ex) {**  
**Logger.getLogger(Main\_Window.class.getName()).log(Level.SEVERE, null, ex);**  
**JOptionPane.showMessageDialog(null, "Product Not Deleted");**  
**}**  
  
**}else{**  
**JOptionPane.showMessageDialog(null, "Product Not Deleted : No Id To Delete");**  
**}**  
  
**}**  
 **// JTable Mouse Clicked**  
**// Display The Selected Row Data Into JTextFields**  
**// And The Image Into JLabel**  
**private void JTable\_ProductsMouseClicked(java.awt.event.MouseEvent evt) {**  
  
**int index = JTable\_Products.getSelectedRow();**  
**ShowItem(index);**  
  
**}**  
 **// Button First Show The First Record**  
**private void Btn\_FirstActionPerformed(java.awt.event.ActionEvent evt) {**  
**pos = 0;**  
**ShowItem(pos);**  
**}**  
  
**// Button Last Show The Last Record**  
**private void Btn\_LastActionPerformed(java.awt.event.ActionEvent evt) {**  
**pos = getProductList().size()-1;**  
**ShowItem(pos);**  
**}**  
  
**// Button Next Show The Next Record**  
**private void Btn\_NextActionPerformed(java.awt.event.ActionEvent evt) {**  
  
**pos++;**  
  
**if(pos >= getProductList().size())**  
**{**  
**pos = getProductList().size()-1;**  
**}**  
  
**ShowItem(pos);**  
  
**}**  
**// Button Previous Show The Previous Record**  
**private void Btn\_PreviousActionPerformed(java.awt.event.ActionEvent evt) {**  
  
**pos--;**  
  
**if(pos < 0)**  
**{**  
**pos = 0;**  
**}**  
  
**ShowItem(pos);**  
  
**}**  
  
    /\*\*  
     \* @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(Main\_Window.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
        } catch (InstantiationException ex) {  
            java.util.logging.Logger.getLogger(Main\_Window.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
        } catch (IllegalAccessException ex) {  
            java.util.logging.Logger.getLogger(Main\_Window.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
            java.util.logging.Logger.getLogger(Main\_Window.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 Main\_Window().setVisible(true);  
            }  
        });  
    }  
  
    // Variables declaration - do not modify                   
    private javax.swing.JButton Btn\_Choose\_Image;  
    private javax.swing.JButton Btn\_First;  
    private javax.swing.JButton Btn\_Insert;  
    private javax.swing.JButton Btn\_Last;  
    private javax.swing.JButton Btn\_Next;  
    private javax.swing.JButton Btn\_Previous;  
    private javax.swing.JTable JTable\_Products;  
    private javax.swing.JButton jButton2;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JLabel jLabel1;  
    private javax.swing.JLabel jLabel2;  
    private javax.swing.JLabel jLabel3;  
    private javax.swing.JLabel jLabel4;  
    private javax.swing.JLabel jLabel5;  
    private javax.swing.JPanel jPanel1;  
    private javax.swing.JScrollPane jScrollPane1;  
    private javax.swing.JLabel lbl\_image;  
    private com.toedter.calendar.JDateChooser txt\_AddDate;  
    private javax.swing.JTextField txt\_id;  
    private javax.swing.JTextField txt\_name;  
    private javax.swing.JTextField txt\_price;  
    // End of variables declaration                 
}