```java
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

```java
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;
```

```java
        } 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
```

```java
    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.get
String("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);
        }

    }
```

```java
// 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();
```

```java
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");
```

```java
        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/Re
new.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/del
ete.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/ad
d.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);
            }
```

```java
        });

        Btn_Previous.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
        Btn_Previous.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/JAVA_VIDEOS_TUTORIALS/icons/pre
vious.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/nex
t.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.LEADIN
G)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(33, 33, 33)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING)
                    .addComponent(jLabel1)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addComponent(jLabel4)
                    .addComponent(jLabel5))
```

```
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.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.UNRELATE
D)
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                .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.UNRELATE
D)
                .addComponent(Btn_Last)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(31, 31, 31)
```

```java
                .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;
```

```java
        }
        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)
{
```

```java
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);
```

```java
                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)
{
```

```java
        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[]) {
```

```java
        /* 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.lo
gging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Main_Window.class.getName()).log(java.util.lo
gging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Main_Window.class.getName()).log(java.util.lo
gging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Main_Window.class.getName()).log(java.util.lo
gging.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;
```

```java
    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
}
```