

**LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK
MODUL 5
LATIHAN EXCEPTION HANDLING**



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**PROGRAM STUDI S1 SISTEM INFORMASI
FAKULTAS REKAYASA INDUSTRI
UNIVERSITAS TELKOM PURWOKERTO
2024**

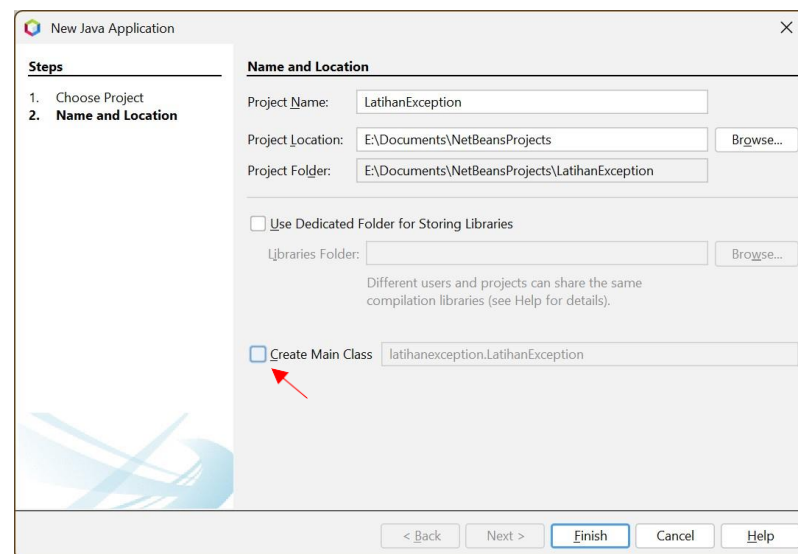
LATIHAN EXCEPTION HANDLING

A. Studi Kasus

Sistem Informasi Perpustakaan – Input Buku

B. Guided

1. Buat project baru pada Netbeans. Pada saat membuat project, hilangkan centang pada *Create Main Class*



2. Tambahkan package baru dengan nama **perpustakaan** dengan cara klik kanan pada *Source Packages* *New Java Package...*
3. Pada *package* perpustakaan, buat Class baru dengan nama **Buku**

Buku.Java

```
public class Buku {
    private String judul;
    private String pengarang;
    private String isbn;

    public Buku(String judul, String pengarang, String isbn){
        this.judul = judul;
        this.pengarang = pengarang;
        this.isbn = isbn;
    }
}
```

```

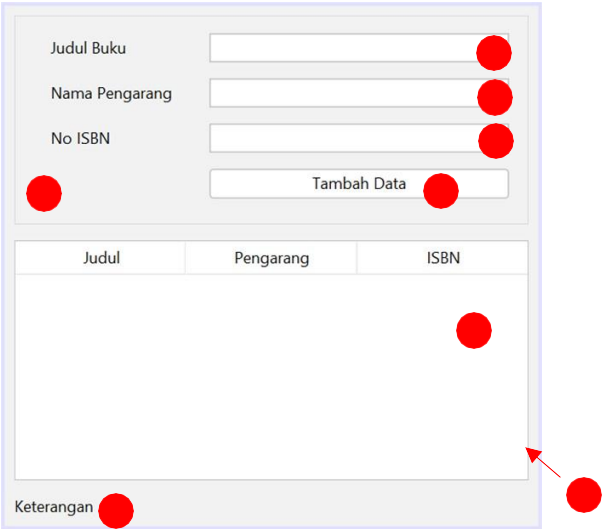
public String getJudul() {
    return judul;
}

public String getPengarang() {
    return pengarang;
}

public String getIsbn() {
    return isbn;
}
}

```

4. Tambahkan tampilan program untuk input data dengan cara klik kanan pada *package perpustakaan* → *New JFrame Form...* , beri nama **InputBuku**
5. Buat tampilan seperti di bawah ini:



No.	Component	Variable Name
1	JPanel	
2	JScrollPane	
3	JTextField	txtJudul
4	JTextField	txtPengarang
5	JTextField	txtIsbn
6	JButton	btnSubmit
7	JTable	tblBuku
8	JLabel	lblKeterangan

6. Klik 2x pada tombol Tambah Data, tambahkan kode berikut

```
private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt) {  
    String judul = txtJudul.getText();  
    String pengarang = txtPengarang.getText();  
    String isbn = txtIsbn.getText();  
  
    // Membuat objek Buku baru  
    Buku buku = new Buku(judul, pengarang, isbn);  
  
    // Menambah data buku ke tabel  
    DefaultTableModel data = (DefaultTableModel)  
tblBuku.getModel();
```

```
data.addRow(new Object[]{buku.getJudul(), buku.getPengarang(),
buku.getIsbn()});

// Reset form input
txtJudul.setText("");
txtPengarang.setText("");
txtIsbn.setText("");
}
```

7. Jalankan project lalu coba tambahkan data, maka akan muncul data pada tabel. Namun ketika form kosong lalu klik tambah data, maka akan ada data kosong yang masuk pada tabel. Hal ini bisa diantisipasi dengan membuat *user defined exception*.
8. Buat sebuah class baru dengan nama **ValidasiInputException**

ValidasiInputException.java

```
public class ValidasiInputException extends Exception{
    public ValidasiInputException(String message) {
        super(message);
    }
}
```

```
public class Buku {
    private String judul;
    private String pengarang;
    private String isbn;

    public Buku(String judul, String pengarang, String isbn) throws
ValidasiInputException {
        if (judul.isEmpty()) {
            throw new ValidasiInputException("Judul buku tidak boleh
kosong!");
        }
        if (pengarang.isEmpty()) {
            throw new ValidasiInputException("Pengarang tidak boleh
kosong!");
        }
        if (!isbn.matches("\\d{13}")) {
            throw new ValidasiInputException("ISBN harus 13 digit angka!");
        }
    }
}
```

9. Ubah kode pada Class buku

Buku.java

```
        this.judul = judul;
        this.pengarang = pengarang;
        this.isbn = isbn;
    }

    public String getJudul() {
        return judul;
    }

    public String getPengarang() {
        return pengarang;
    }

    public String getIsbn() {
        return isbn;
    }
}
```

10. Klik 2x pada tombol Tambah Data, ubah kode berikut

```
private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt)
    try {
        String judul = txtJudul.getText();
        String pengarang = txtPengarang.getText();
        String isbn = txtIsbn.getText();

        // Membuat objek Buku baru
        Buku buku = new Buku(judul, pengarang, isbn);

        // Menambah data buku ke tabel
        DefaultTableModel data = (DefaultTableModel)
tblBuku.getModel();
        data.addRow(new Object[]{buku.getJudul(),
buku.getPengarang(), buku.getIsbn()});

        // Reset form input
        txtJudul.setText("");
        txtPengarang.setText("");
        txtIsbn.setText("");

        lblKeterangan.setForeground(Color.GREEN);
        lblKeterangan.setText("Buku berhasil ditambahkan!");
    } catch (ValidasiInputException e) {

        lblKeterangan.setForeground(Color.RED);
        lblKeterangan.setText("Error: " + e.getMessage());
    }
}
```

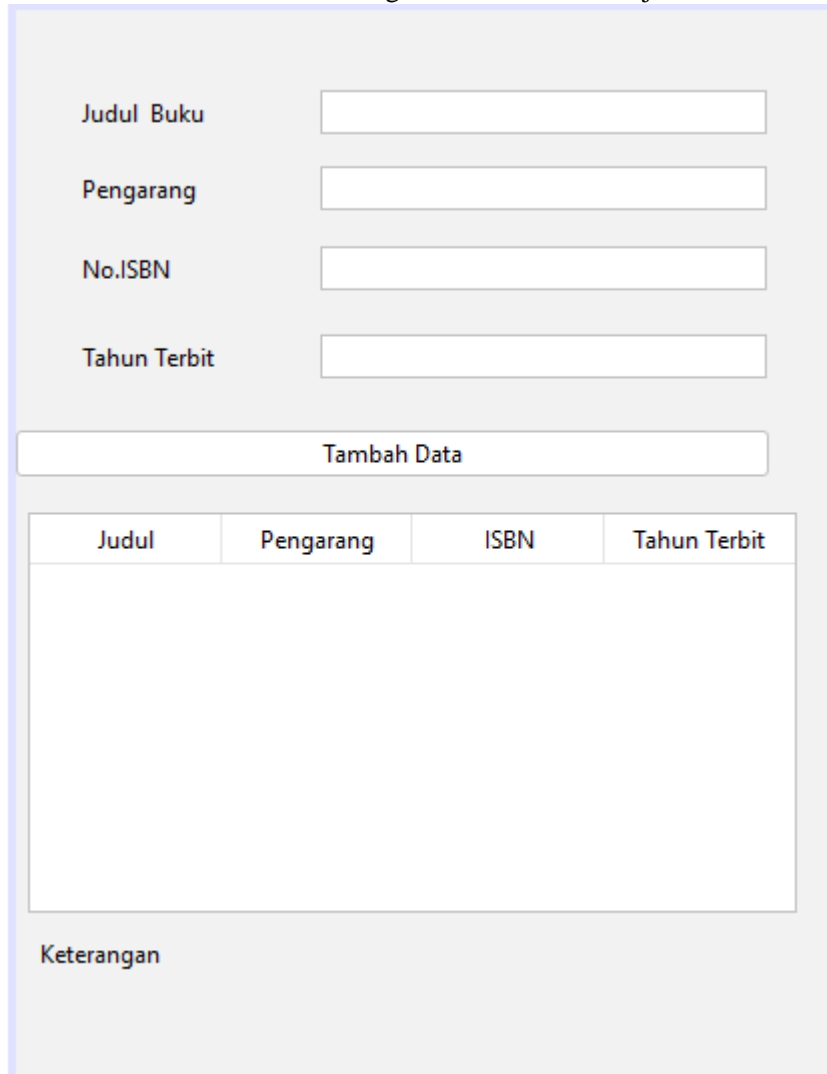
11. Jalankan project, coba tambahkan data baru. Ketika form kosong maka akan muncul peringatan pada bagian bawah aplikasi

C. Unguided

Tambahkan inputan berikut pada aplikasi:

1. Tahun Terbit: Validasi untuk angka empat digit.

Buatlah Text field baru dan change variable name menjadi txtTahun



Kode :

ValidasiInputException.java

```
package perpustakaan;

/**
 *
 * @author Daffa Zachari 2311103118 S1SI07C
 */
public class ValidasiInputException extends Exception {
```



```

    public ValidasiInputException(String message){
        super (message);
    }
}

```

Buku.java

```

package perpustakaan;

/**
 *
 * @author Daffa Zachari 2311103118 S1SI07C
 */
public class Buku {
    private String judul;
    private String pengarang;
    private String isbn;
    private String tahun;

    public Buku (String judul, String pengarang, String isbn, String tahun)throws
ValidasiInputException{
        if(judul.isEmpty()){
            throw new ValidasiInputException ("Judul Kosong Blokk");
        }
        if(pengarang.isEmpty()){
            throw new ValidasiInputException ("Pengarang Kosong Jing");
        }
        if(!isbn.matches("\\d{13}")){
            throw new ValidasiInputException ("ISBN ISI
13
GA!?!?");
        }

        if(tahun.isEmpty()){
            throw new ValidasiInputException("Silahkan isi Tahun Terbit!!");
        }

        if(!tahun.matches("\\d+")){
            throw new ValidasiInputException("Tahun Terbit tidak boleh pakai huruf broo");
        }

        if(!tahun.matches("\\d{4}")){
            throw new ValidasiInputException("Tahun Terbit 4 angka ya broo");
        }
    }
}

```

```
        this.judul = judul;
        this.pengarang = pengarang;
        this.isbn = isbn;
        this.tahun = tahun;
    }

    public String getJudul (){
        return judul;
    }
    public String getPengarang (){
        return pengarang;
    }
    public String getIsbn (){
        return isbn;
    }
    public String getTahun (){
        return tahun;
    }
}
```

InputData.java

```
package perpustakaan;

import java.awt.Color;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author Daffa Zachari 2311103118 S1SI07C
 */
public class InputData extends javax.swing.JFrame {

    private Object Tahun;

    /**
     * Creates new form InputData
     */
    public InputData() {
        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() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    txtJudul = new javax.swing.JTextField();
    txtPengarang = new javax.swing.JTextField();
    txtIsbn = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    txtTahun = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    tableBuku = new javax.swing.JTable();
    lblMessage = new javax.swing.JLabel();
    btnSubmit = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Judul  Buku");

    jLabel2.setText("No. ISBN");

    jLabel3.setText("Pengarang");

    jLabel4.setText("Tahun Terbit");

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel1)
                    .addComponent(jLabel3)
                    .addComponent(jLabel2)
                    .addComponent(jLabel4))
                .addGap(53, 53, 53)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(txtJudul)
                    .addComponent(txtPengarang)
                    .addComponent(txtIsbn)
                    .addComponent(txtTahun))
            )
    );
    jScrollPane1.setViewportView(tableBuku);
    lblMessage.setText("");
    btnSubmit.setText("Submit");
}

```

```

        .addComponent(txtTahun, javax.swing.GroupLayout.DEFAULT_SIZE, 223,
Short.MAX_VALUE)
        .addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING, false)
            .addComponent(txtIsbn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 223, Short.MAX_VALUE)
            .addComponent(txtPengarang,
javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(txtJudul, javax.swing.GroupLayout.Alignment.TRAILING)))
        .addContainerGap(28, Short.MAX_VALUE))
    );
    jPanel11Layout.setVerticalGroup(
        jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel11Layout.createSequentialGroup()
                .addGap(15, 15, 15)
                .addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabel11)
                    .addComponent(txtJudul, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 16,
Short.MAX_VALUE)
                .addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
BASELINE)
                    .addComponent(jLabel13)
                    .addComponent(txtPengarang, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabel12)
                    .addComponent(txtIsbn, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(22, 22, 22)
                .addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabel14)
                    .addComponent(txtTahun, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            );

    tableBuku.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {

```

```
        "Judul", "Pengarang", "ISBN", "Tahun Terbit"
    }
} {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class,
java.lang.String.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(tableBuku);

lblMessage.setText("Keterangan");

btnSubmit.setText("Tambah Data");
btnSubmit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnSubmitActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(lblMessage)
                .add(jScrollPane1)
            )
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(btnSubmit)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .add(btnClear)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(btnAdd)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .add(btnDelete)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(btnPrint)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .add(btnExit)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(btnClose)
            .addContainerGap())
    );
}
```

```

        .addComponent(btnSubmit, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGap(33, 33, 33))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26,
Short.MAX_VALUE)
            .addComponent(btnSubmit)
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(lblMessage)
            .addGap(53, 53, 53))
        );

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

private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt)
{
    try{
        String judul = txtJudul.getText();
        String pengarang = txtPengarang.getText();
        String isbn = txtIsbn.getText();
        String tahun = txtTahun.getText();

        Buku buku = new Buku (judul, pengarang, isbn, tahun);

        DefaultTableModel data =(DefaultTableModel)tableBuku.getModel();
        data.addRow(new Object[]{buku.getJudul(), buku.getPengarang(), buku.getIsbn(),
buku.getTahun()});

        txtJudul.setText("");
        txtPengarang.setText("");
        txtIsbn.setText("");
        txtTahun.setText(" ");
        lblMessage.setText("Data Berhasil Ditambahkan");
        lblMessage.setForeground(Color.green);
    }catch(ValidasiInputException e){
        lblMessage.setText("Error : "+e.getMessage());
    }
}

```

```

        lblMessage.setForeground(Color.red);
    }
}

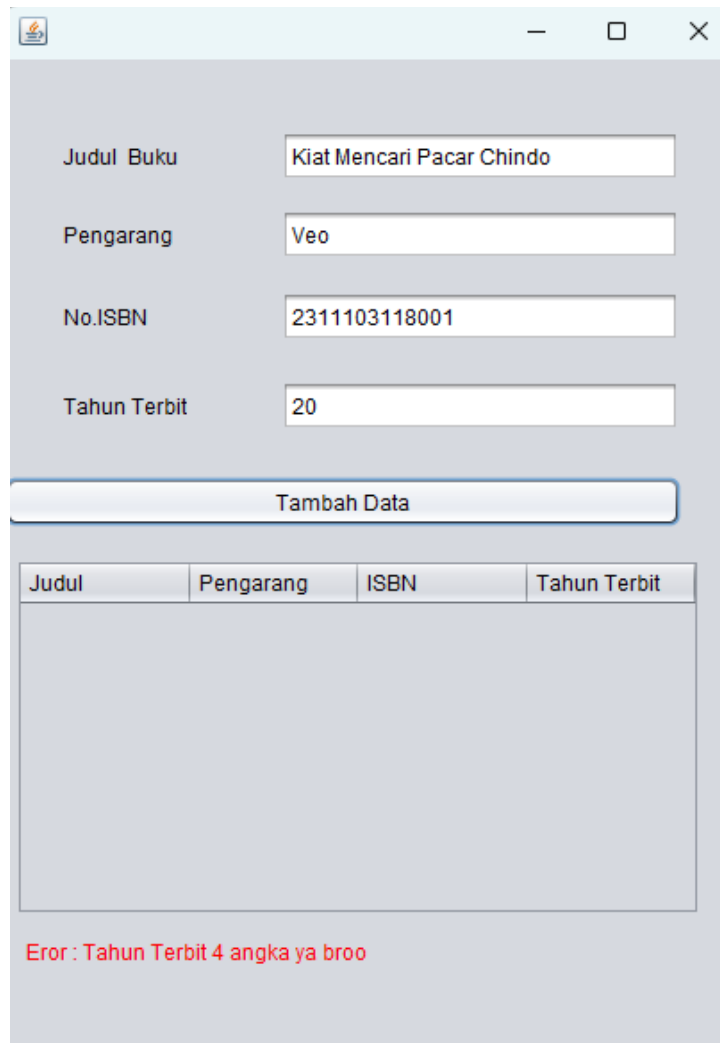
/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional)
">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default 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(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

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

```

```
// Variables declaration - do not modify
private javax.swing.JButton btnSubmit;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JLabel lblMessage;
private javax.swing.JTable tableBuku;
private javax.swing.JTextField txtIsbn;
private javax.swing.JTextField txtJudul;
private javax.swing.JTextField txtPengarang;
private javax.swing.JTextField txtTahun;
// End of variables declaration
}
```

Hasil Run :



Judul Buku: Kiat Mencari Pacar Chindo

Pengarang: Veo

No.ISBN: 2311103118001

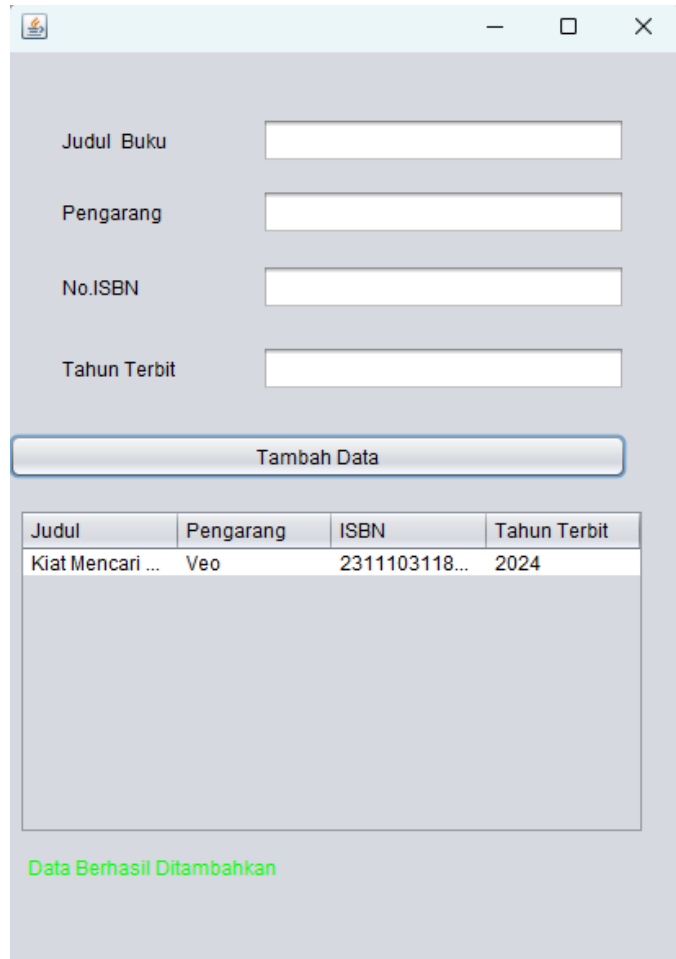
Tahun Terbit: 20

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit
-------	-----------	------	--------------

Error : Tahun Terbit 4 angka ya broo

Tervalidasi untuk memasukan 4 angka tahun terbit dan jika berhasil maka tampilannya seperti dibawah ini,



Judul Buku

Pengarang

No.ISBN

Tahun Terbit

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit
Kiat Mencari ...	Veo	2311103118...	2024

Data Berhasil Ditambahkan

2. Harga Buku: Validasi untuk angka positif

Buat Text Field baru dan change variable name nya menjadi “txtHarga”

.

Judul Buku

Pengarang

No.ISBN

Tahun Terbit

Harga Buku

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga

Keterangan

Kode :

Buku.java

```
package perpustakaan;

/**
 *
 * @author Daffa Zachari 2311103118 S1SI07C
 */
public class Buku {
    private String judul;
    private String pengarang;
    private String isbn;
    private String tahun;
    private String harga;
}
```

```
public Buku (String judul, String pengarang, String isbn, String tahun, String
harga)throws ValidasiInputException{
    if(judul.isEmpty()){
        throw new ValidasiInputException ("Judul Kosong Blokk");
    }
    if(pengarang.isEmpty()){
        throw new ValidasiInputException ("Pengarang Kosong Jing");
    }
    if(!isbn.matches("\\d{13}")){
        throw new ValidasiInputException ("ISBN ISI 13 DULU GA!?!?");
    }

    if(tahun.isEmpty()){
        throw new ValidasiInputException("Silahkan isi Tahun Terbit!!");
    }

    if(!tahun.matches("\\d+")){
        throw new ValidasiInputException("Tahun Terbit ga boleh pakai huruf broo");
    }

    if(!tahun.matches("\\d{4}")){
        throw new ValidasiInputException("Tahun Terbit 4 angka ya broo");
    }
    if(harga.isEmpty()){
        throw new ValidasiInputException("Silahkan isi Harga Buku Yaa");
    }
    if(!harga.matches("\\d+")){
        throw new ValidasiInputException("Harga ya bukan kata kata, jadi pake angka!!");
    }
    int hargaInt = Integer.parseInt(harga);
    if(hargaInt <= 0){
        throw new ValidasiInputException("Harga kok minus? emg sikap lo!");
    }

    this.judul = judul;
    this.pengarang = pengarang;
    this.isbn = isbn;
    this.tahun = tahun;
    this.harga = harga;
}

public String getJudul (){
    return judul;
}
public String getPengarang (){
    return pengarang;
}
```

```
    }  
    public String getIsbn () {  
        return isbn;  
    }  
    public String getTahun () {  
        return tahun;  
    }  
    public String getHarga () {  
        return harga;  
    }  
}
```

InputData.Java

```
package perpustakaan;  
  
import java.awt.Color;  
import javax.swing.table.DefaultTableModel;  
  
/**  
 *  
 * @author Daffa Zachari 2311103118 S1SI07C  
 */  
public class InputData extends javax.swing.JFrame {  
  
    private Object Tahun;  
  
    /**  
     * Creates new form InputData  
     */  
    public InputData() {  
        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() {  
  
        jPanel1 = new javax.swing.JPanel();  
        jLabel1 = new javax.swing.JLabel();  

```

```

jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
txtJudul = new javax.swing.JTextField();
txtPengarang = new javax.swing.JTextField();
txtIsbn = new javax.swing.JTextField();
jLabel5 = new javax.swing.JLabel();
txtTahun = new javax.swing.JTextField();
txtHarga = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
tableBuku = new javax.swing.JTable();
lblMessage = new javax.swing.JLabel();
btnSubmit = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("Judul  Buku");

jLabel2.setText("No.ISBN");

jLabel3.setText("Pengarang");

jLabel5.setText("Tahun Terbit");

jLabel4.setText("Harga Buku");

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(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel3)
                .addComponent(jLabel2)
                .addComponent(jLabel5)
                .addComponent(jLabel4))
            .addGap(53, 53, 53)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtHarga)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

```

```

        .addComponent(txtIsbn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 223, Short.MAX_VALUE)
        .addComponent(txtPengarang,
javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(txtJudul,
javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(txtTahun,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, 223,
Short.MAX_VALUE))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(15, 15, 15)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(jLabel1)
            .addComponent(txtJudul, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
BASELINE)
                .addComponent(txtPengarang, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(txtIsbn, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel2))
                    .addGap(18, 18, 18)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                        .addComponent(jLabel5)
                        .addComponent(txtTahun, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                            .addComponent(txtHarga, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel4))
                            .addGap(0, 0, Short.MAX_VALUE))
                    )
                )
            )
        )
    );

```

[illegible]


```

        .addComponent(lblMessage))
        .addGroup(layout.createSequentialGroup()
            .addGap(15, 15, 15)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(0, 0, Short.MAX_VALUE))
        .addComponent(jScrollPane1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, 539, Short.MAX_VALUE))
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 22,
Short.MAX_VALUE)
            .addComponent(btnSubmit)
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(lblMessage)
            .addGap(53, 53, 53))
        );

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

private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt)
{
    try{
        String judul = txtJudul.getText();
        String pengarang = txtPengarang.getText();
        String isbn = txtIsbn.getText();
        String tahun = txtTahun.getText();
        String harga = txtHarga.getText();

        Buku buku = new Buku (judul, pengarang, isbn, tahun, harga);

        String formatHarga = "Rp." + buku.getHarga();

        DefaultTableModel data =(DefaultTableModel)tableBuku.getModel();
        data.addRow(new Object[]{buku.getJudul(), buku.getPengarang(), buku.getIsbn(),
buku.getTahun(), formatHarga});
    }
}

```

```

        txtJudul.setText("");
        txtPengarang.setText("");
        txtIsbn.setText("");
        txtTahun.setText("");
        lblMessage.setText("Data Berhasil Ditambahkan");
        lblMessage.setForeground(Color.green);
    } catch (ValidasiInputException e) {
        lblMessage.setText("Error : "+e.getMessage());
        lblMessage.setForeground(Color.red);
    }
}

/**
 * @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(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(InputData.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        }
    }
}

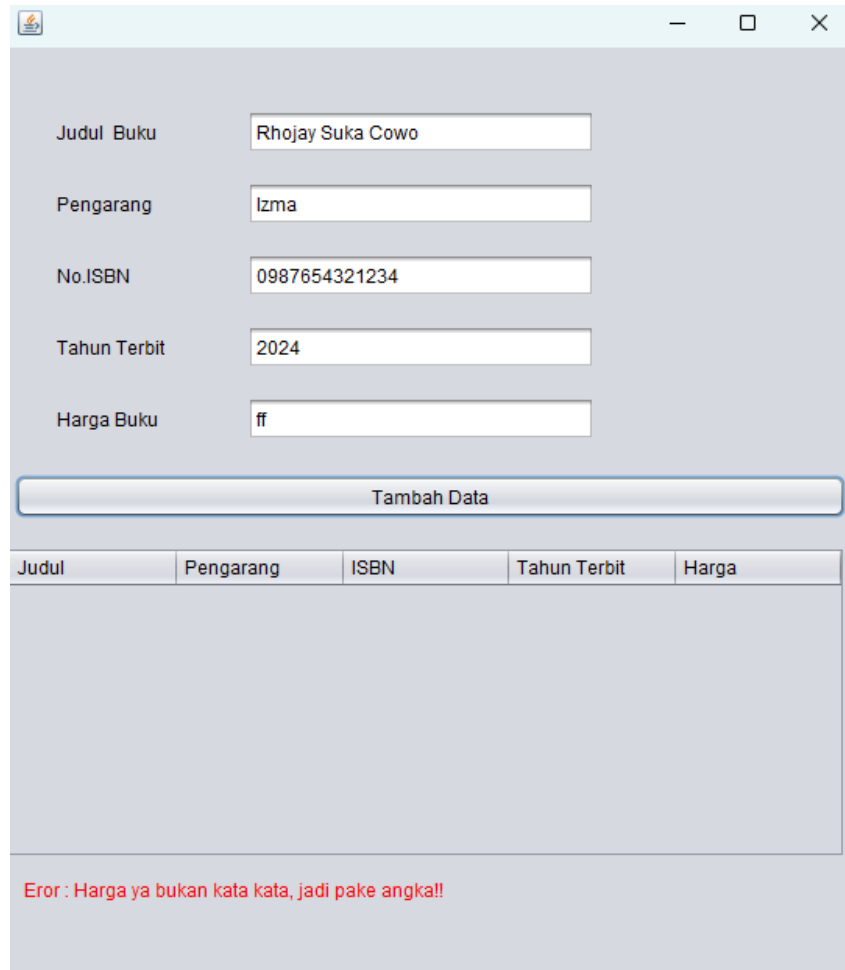
```

```
//</editor-fold>

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

// Variables declaration - do not modify
private javax.swing.JButton btnSubmit;
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 lblMessage;
private javax.swing.JTable tableBuku;
private javax.swing.JTextField txtHarga;
private javax.swing.JTextField txtIsbn;
private javax.swing.JTextField txtJudul;
private javax.swing.JTextField txtPengarang;
private javax.swing.JTextField txtTahun;
// End of variables declaration
}
```

Hasil Run :



Judul Buku Rhojay Suka Cowo

Pengarang Izma

No.ISBN 0987654321234

Tahun Terbit 2024

Harga Buku ff

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga
-------	-----------	------	--------------	-------

Error : Harga ya bukan kata kata, jadi pake angka!!

Judul Buku

Rhojay Suka Cowo

Pengarang

Izma

No.ISBN

0987654321234

Tahun Terbit

2024

Harga Buku

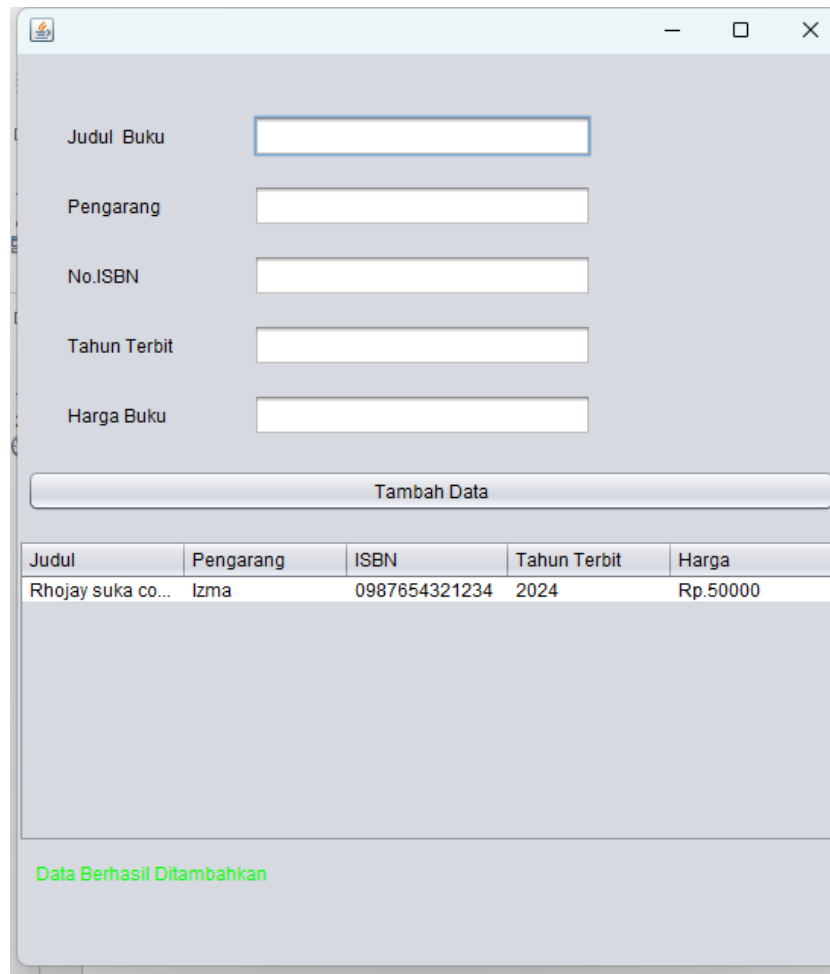
0

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga

Error : Harga kok minus? emg sikap lo!

Validasi jika kita memasukan bukan angka dan apabila harga 0 atau minus



Judul Buku

Pengarang

No.ISBN

Tahun Terbit

Harga Buku

Tambah Data

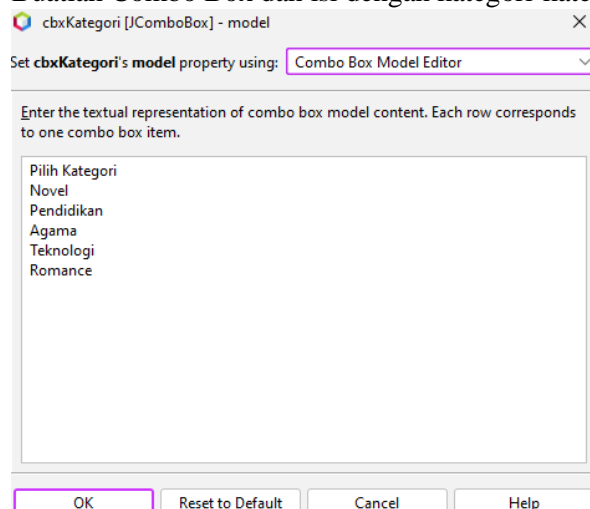
Judul	Pengarang	ISBN	Tahun Terbit	Harga
Rhojay suka co...	Izma	0987654321234	2024	Rp.50000

Data Berhasil Ditambahkan

Tampilan Jika Berhasil

3. Kategori Buku: Validasi untuk input tidak kosong. (dalam bentuk Dropdown)

Buatlah Combo Box dan isi dengan kategori-kategori buku dan ganti variable nam nya menjadi “cbxKategori”



cbxKategori [JComboBox] - model

Set **cbxKategori**'s model property using: Combo Box Model Editor

Enter the textual representation of combo box model content. Each row corresponds to one combo box item.

Pilih Kategori

- Novel
- Pendidikan
- Agama
- Teknologi
- Romance

OK Reset to Default Cancel Help

Judul Buku

Pengarang

No.ISBN

Tahun Terbit

Harga Buku

Kategori Buku

Pilih Kategori ▼

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga	Kategori

Keterangan

Kode :

Buku.java

```
package perpustakaan;

/**
 *
 * @author Daffa Zachari 2311103118 S1SI07C
 */
public class Buku {
    private String judul;
    private String pengarang;
    private String isbn;
    private String tahun;
    private String harga;
    private String kategori;

    public Buku (String judul, String pengarang, String isbn, String tahun, String harga,
String kategori)throws ValidasiInputException{
        if(judul.isEmpty()){
            throw new ValidasiInputException ("Judul Kosong Blokk");
        }
        if(pengarang.isEmpty()){
            throw new ValidasiInputException ("Pengarang Kosong Jing");
        }
    }
}
```

```

    }
    if(!isbn.matches("\\d{13}")){
        throw new ValidasiInputException ("ISBN ISI 13 DULU GA!?!?");
    }

    if(tahun.isEmpty()){
        throw new ValidasiInputException("Silahkan isi Tahun Terbit!!");
    }

    if(!tahun.matches("\\d+")){
        throw new ValidasiInputException("Tahun Terbit ga boleh pakai huruf broo");
    }

    if(!tahun.matches("\\d{4}")){
        throw new ValidasiInputException("Tahun Terbit 4 angka ya broo");
    }
    if(harga.isEmpty()){
        throw new ValidasiInputException("Silahkan isi Harga Buku Yaa");
    }
    if(!harga.matches("\\d+")){
        throw new ValidasiInputException("Harga ya bukan kata kata, jadi pake angka!!");
    }
    int hargaInt = Integer.parseInt(harga);
    if(hargaInt <= 0){
        throw new ValidasiInputException("Harga kok minus? emg sikap lo!");
    }
    if(kategori == "Pilih Kategori"){
        throw new ValidasiInputException("Kategori jangan kosong ya gantenk");
    }

    this.judul = judul;
    this.pengarang = pengarang;
    this.isbn = isbn;
    this.tahun = tahun;
    this.harga = harga;
    this.kategori = kategori;
}

public String getJudul (){
    return judul;
}
public String getPengarang (){
    return pengarang;
}
public String getIsbn (){
    return isbn;
}

```



```
    }  
    public String getTahun () {  
        return tahun;  
    }  
    public String getHarga () {  
        return harga;  
    }  
    public String getKategori() {  
        return kategori;  
    }  
}
```

InputData.java

```
package perpustakaan;  
  
import java.awt.Color;  
import javax.swing.table.DefaultTableModel;  
  
/**  
 *  
 * @author Daffa Zachari 2311103118 S1SI07C  
 */  
public class InputData extends javax.swing.JFrame {  
  
    private Object Tahun;  
  
    /**  
     * Creates new form InputData  
     */  
    public InputData() {  
        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() {  
  
        jPanel1 = new javax.swing.JPanel();  
        jLabel1 = new javax.swing.JLabel();  

```

```

jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
txtJudul = new javax.swing.JTextField();
txtPengarang = new javax.swing.JTextField();
txtIsbn = new javax.swing.JTextField();
jLabel5 = new javax.swing.JLabel();
txtTahun = new javax.swing.JTextField();
txtHarga = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
tableBuku = new javax.swing.JTable();
lblMessage = new javax.swing.JLabel();
btnSubmit = new javax.swing.JButton();
jLabel6 = new javax.swing.JLabel();
cbxKategori = new javax.swing.JComboBox<>();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("Judul  Buku");

jLabel2.setText("No. ISBN");

jLabel3.setText("Pengarang");

jLabel5.setText("Tahun Terbit");

jLabel4.setText("Harga Buku");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel3)
                .addComponent(jLabel2)
                .addComponent(jLabel4)
                .addComponent(jLabel5))
            .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel6)
                .addComponent(btnSubmit))
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(lblMessage)
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(tableBuku)
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jScrollPane1)
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(txtJudul)
            .addGap(18, 18, 18)
            .addComponent(txtPengarang)
            .addGap(18, 18, 18)
            .addComponent(txtIsbn)
            .addGap(18, 18, 18)
            .addComponent(txtTahun)
            .addGap(18, 18, 18)
            .addComponent(txtHarga)
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(cbxKategori)
            .addContainerGap(18, Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(lblMessage)
            .addGap(18, 18, 18)
            .addComponent(tableBuku)
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1)
            .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtJudul)
                .addComponent(txtPengarang)
                .addComponent(txtIsbn)
                .addComponent(txtTahun)
                .addComponent(txtHarga)
                .addComponent(cbxKategori))
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addComponent(jLabel3)
            .addGap(18, 18, 18)
            .addComponent(jLabel2)
            .addGap(18, 18, 18)
            .addComponent(jLabel4)
            .addGap(18, 18, 18)
            .addComponent(jLabel5)
            .addContainerGap(18, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jLabel6)
            .addGap(18, 18, 18)
            .addComponent(btnSubmit)
            .addContainerGap(18, Short.MAX_VALUE))
    );

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
53, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
ignment.LEADING)
        .addComponent(txtTahun,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 229,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtIsbn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 229, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtPengarang,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 229,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtJudul,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 229,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(12, 12, 12)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
BASELINE)
            .addComponent(jLabel1)
            .addComponent(txtJudul, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(15, 15, 15)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
TRAILING)
            .addComponent(jLabel3)
            .addComponent(txtPengarang, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(24, 24, 24)
                .addComponent(jLabel2))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(txtIsbn, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
BASELINE)

```

```

        .addComponent(txtTahun, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel15))
        .addGap(15, 15, 15)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment
BASELINE)
        .addComponent(txtHarga, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel14))
        .addGap(0, 0, Short.MAX_VALUE))
    );

    tableBuku.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

            },
        new String [] {
            "Judul", "Pengarang", "ISBN", "Tahun Terbit", "Harga"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.String.class, java.lang.String.class, java.lang.String.class,
java.lang.String.class, java.lang.String.class
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }
    });
    jScrollPane1.setViewportViewView(tableBuku);

    lblMessage.setText("Keterangan");

    btnSubmit.setText("Tambah Data");
    btnSubmit.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnSubmitActionPerformed(evt);
        }
    });

    jLabel6.setText("Kategori Buku");

    cbxKategori.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Pilih
Kategori", "Novel", "Pendidikan ", "Agama", "Teknologi", "Romance" }));

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

```

[illegible]

```

        .addComponent(jLabel6)
        .addComponent(cbxKategori, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(21, 21, 21)
        .addComponent(btnSubmit)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(lblMessage)
        .addGap(53, 53, 53))
    );

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

private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt)
{
    try{
        String judul = txtJudul.getText();
        String pengarang = txtPengarang.getText();
        String isbn = txtIsbn.getText();
        String tahun = txtTahun.getText();
        String harga = txtHarga.getText();
        String kategori = (String)cbxKategori.getSelectedItem();

        Buku buku = new Buku (judul, pengarang, isbn, tahun, harga, kategori);

        String formatHarga = "Rp." + buku.getHarga();

        DefaultTableModel data =(DefaultTableModel)tableBuku.getModel();
        data.addRow(new Object[]{buku.getJudul(), buku.getPengarang(), buku.getIsbn(),
buku.getTahun(), formatHarga, buku.getKategori()});

        txtJudul.setText("");
        txtPengarang.setText("");
        txtIsbn.setText("");
        txtTahun.setText("");
        lblMessage.setText("Data Berhasil Ditambahkan");
        lblMessage.setForeground(Color.green);
    }catch(ValidasiInputException e){
        lblMessage.setText("Error : "+e.getMessage());
        lblMessage.setForeground(Color.red);
    }
}
}

```

```

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

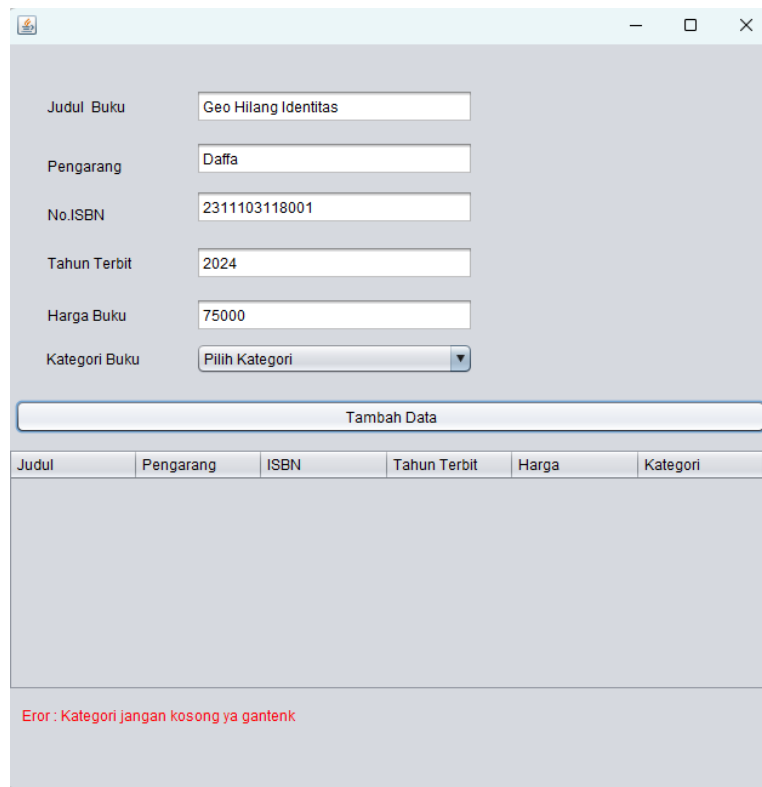
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new InputData().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton btnSubmit;
private javax.swing.JComboBox<String> cbxKategori;

```

```
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.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JLabel lblMessage;
private javax.swing.JTable tableBuku;
private javax.swing.JTextField txtHarga;
private javax.swing.JTextField txtIsbn;
private javax.swing.JTextField txtJudul;
private javax.swing.JTextField txtPengarang;
private javax.swing.JTextField txtTahun;
// End of variables declaration
}
```

Hasil Run :



Judul Buku: Geo Hilang Identitas

Pengarang: Daffa

No.ISBN: 2311103118001

Tahun Terbit: 2024

Harga Buku: 75000

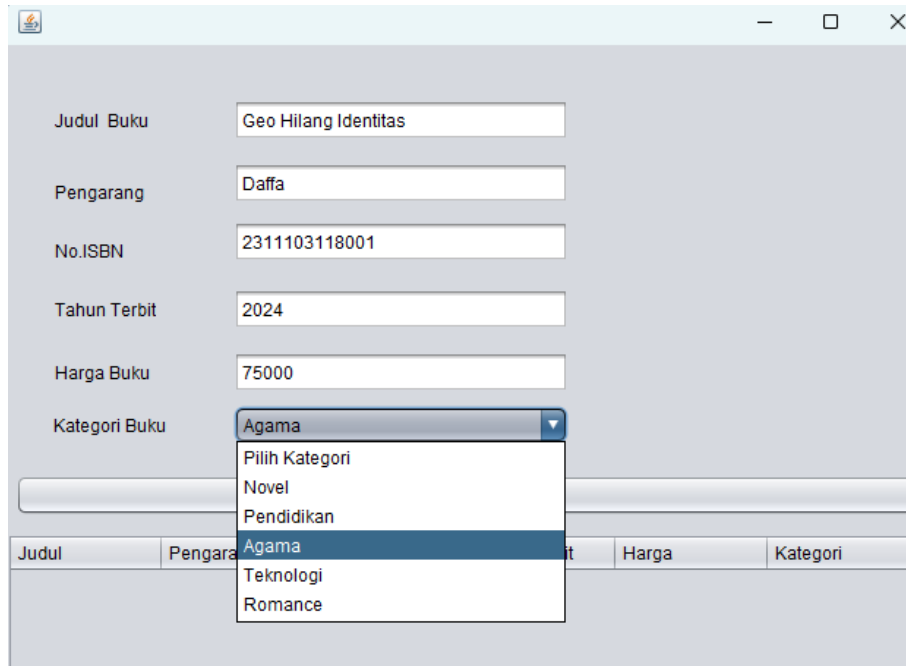
Kategori Buku: Pilih Kategori

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga	Kategori
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Error : Kategori jangan kosong ya gantenk

Validasi Jika kategori kosong



Judul Buku: Geo Hilang Identitas

Pengarang: Daffa

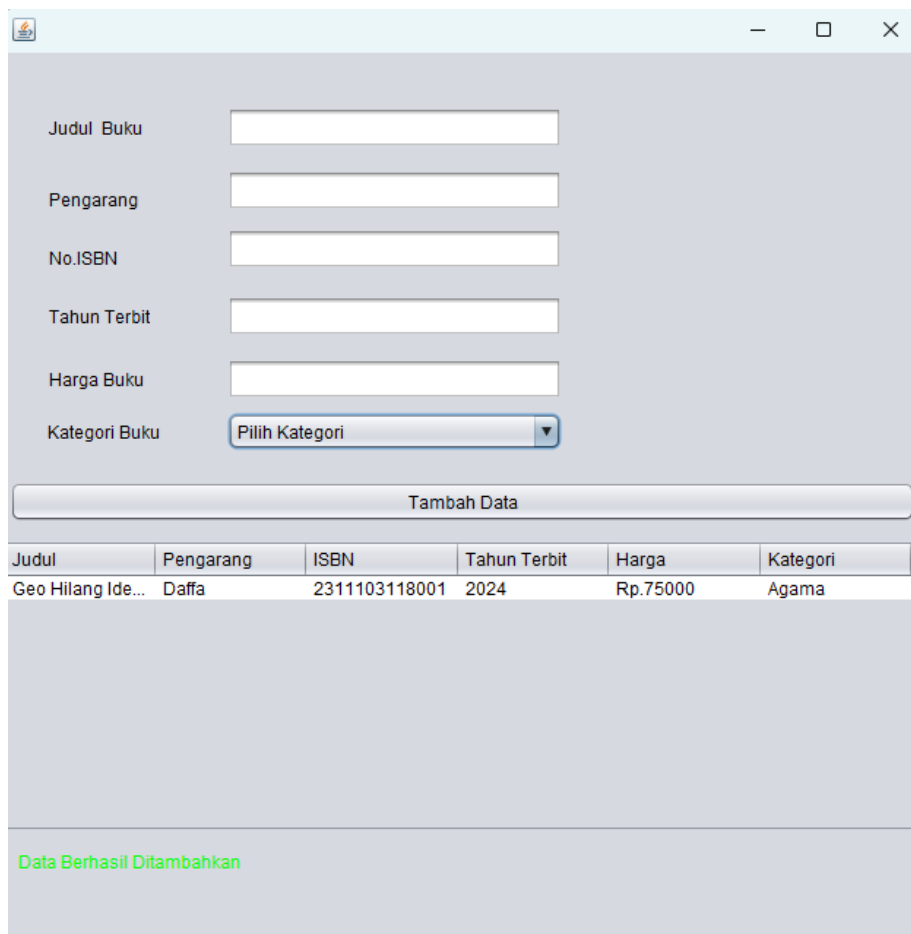
No.ISBN: 2311103118001

Tahun Terbit: 2024

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Geo Hilang Ide...	Daffa	2311103118001	2024	Rp.75000	Agama



Judul Buku:

Pengarang:

No.ISBN:

Tahun Terbit:

Harga Buku:

Kategori Buku: Pilih Kategori

Tambah Data

Judul	Pengarang	ISBN	Tahun Terbit	Harga	Kategori
Geo Hilang Ide...	Daffa	2311103118001	2024	Rp.75000	Agama

Data Berhasil Ditambahkan

Tampilan Jika Berhasil.