



INSTITUTO FEDERAL  
DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA  
Bahia

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# Linguagem de Programação II

Persistência de Dados em Java - Java  
Database Connectivity (JDBC) – Tela  
Principal e Login;

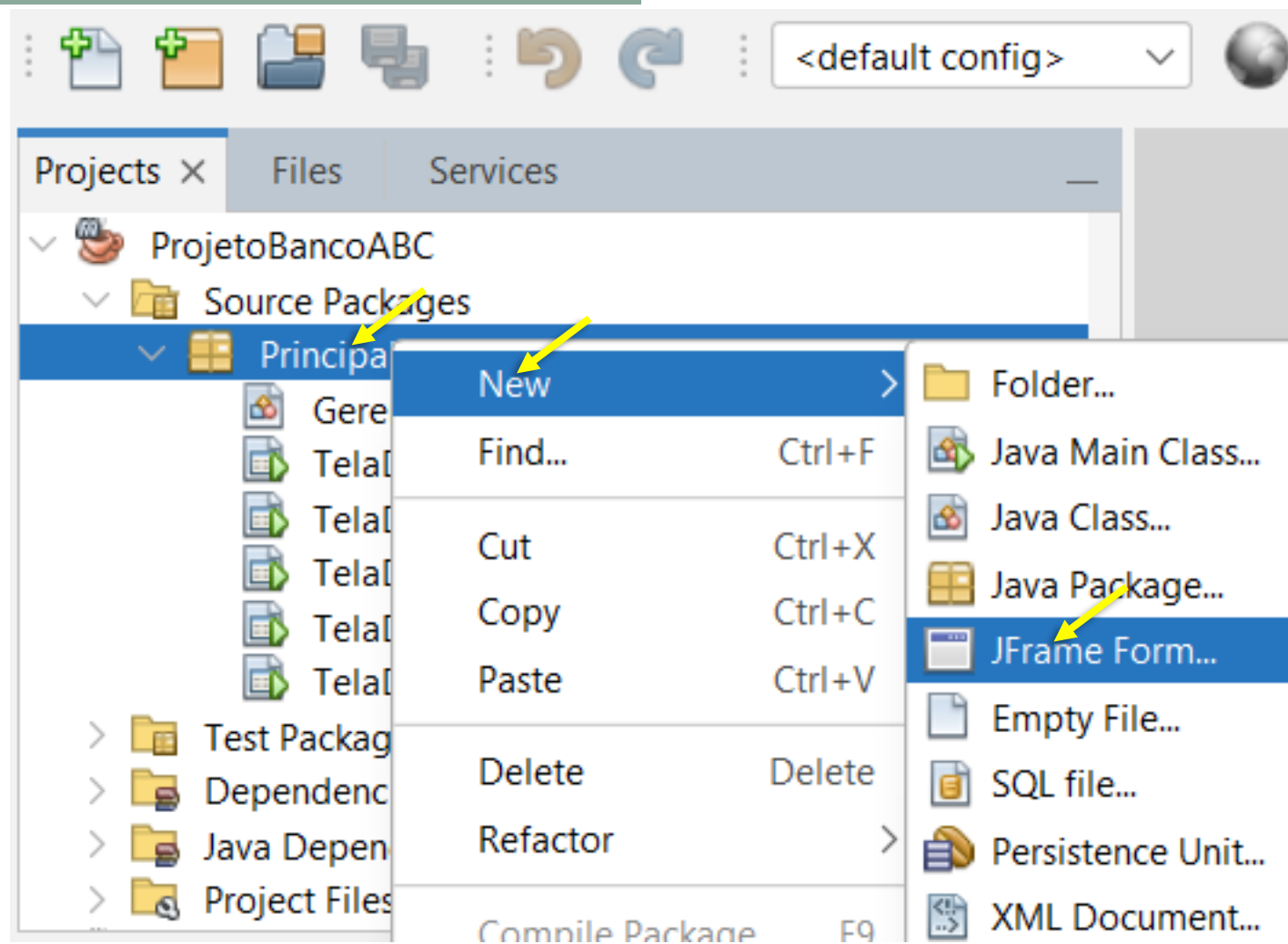


# Roteiro

- Persistência de Dados em Java Java Database Connectivity (JDBC) – Tela Principal e Login;
  - Exemplo – Principal e Login;
    - Tela Principal;
    - Tela Login.



# Tela Principal



# Tela Principal

New JFrame Form

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

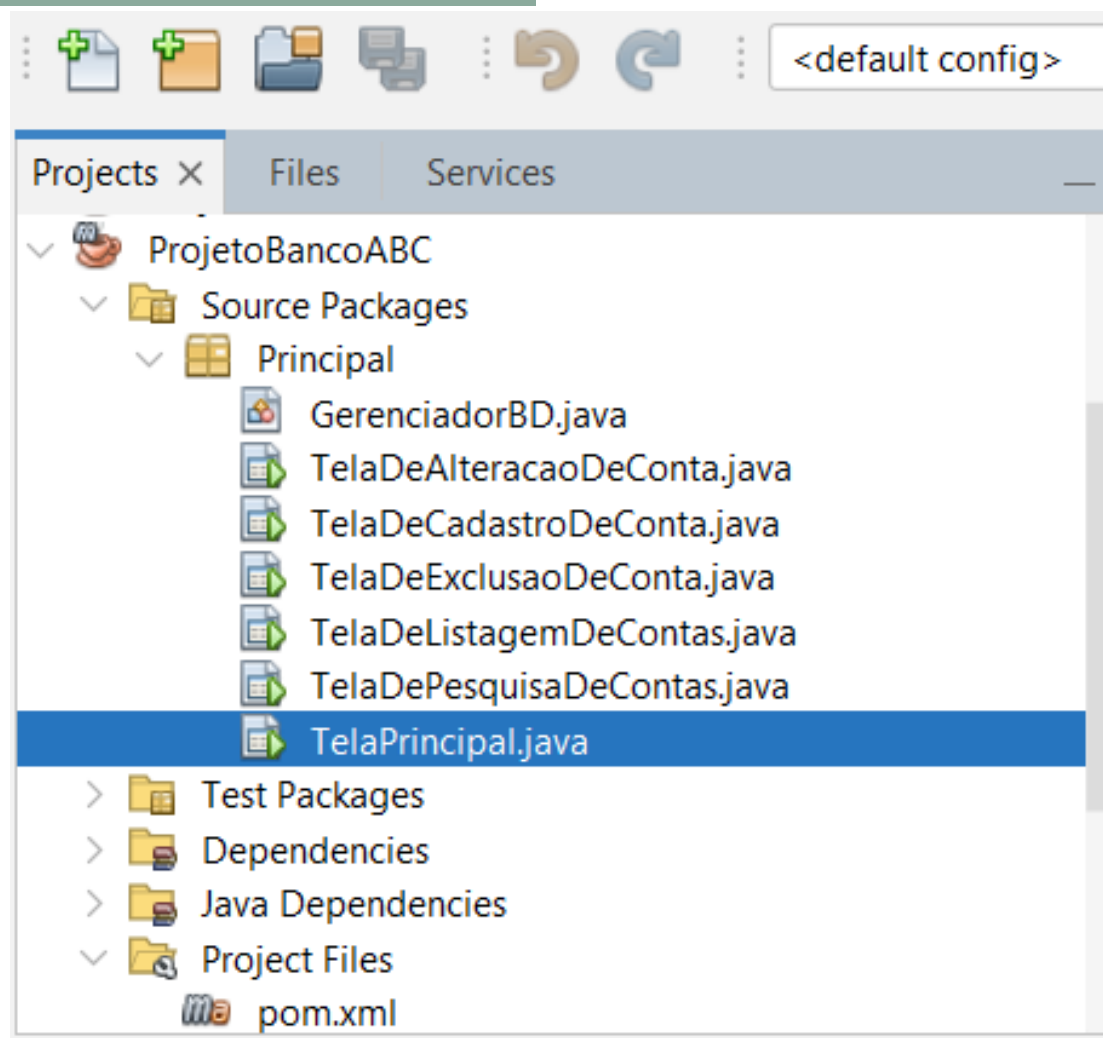
Package:

Created File:

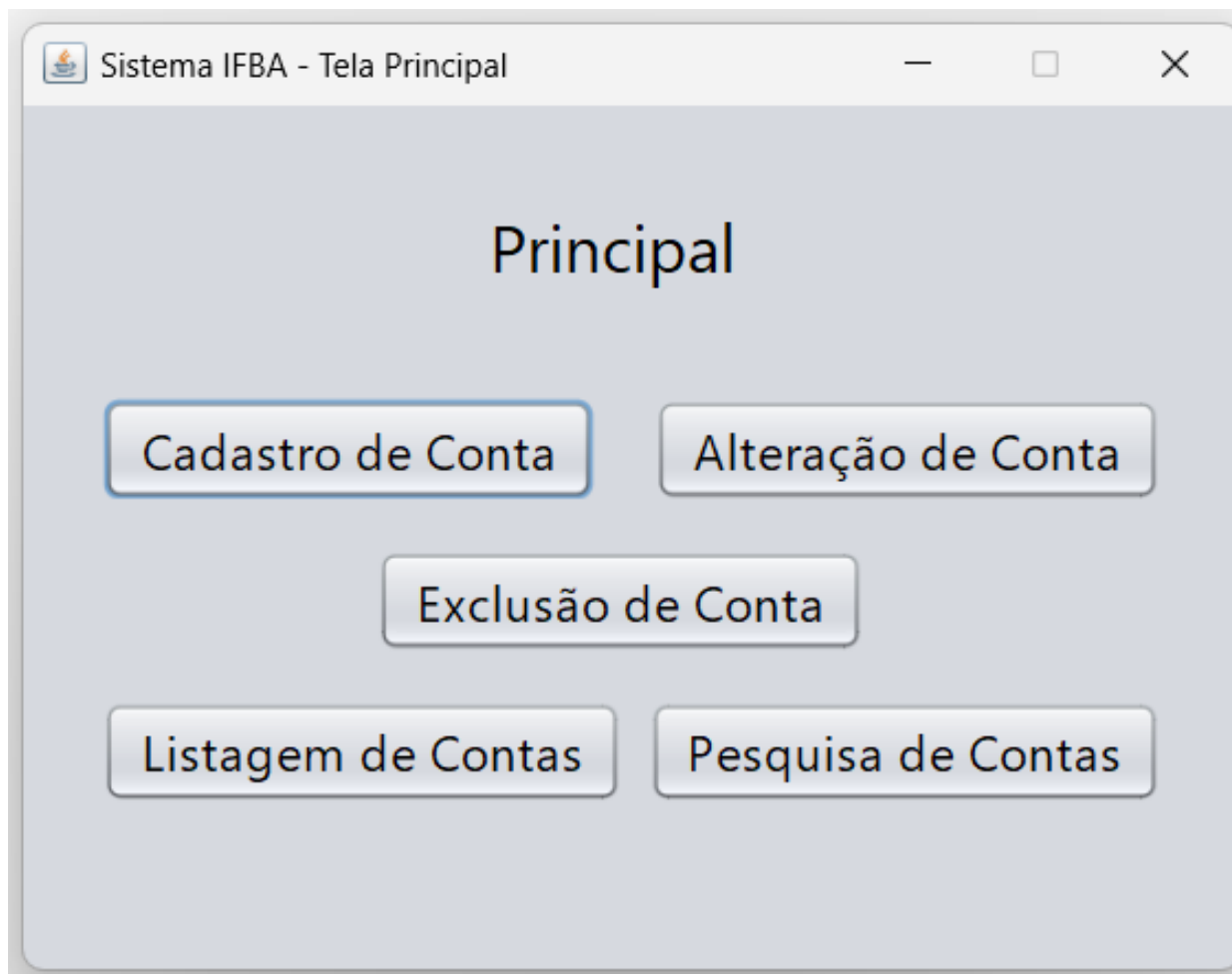
< Back   Next >   **Finish**   Cancel   Help



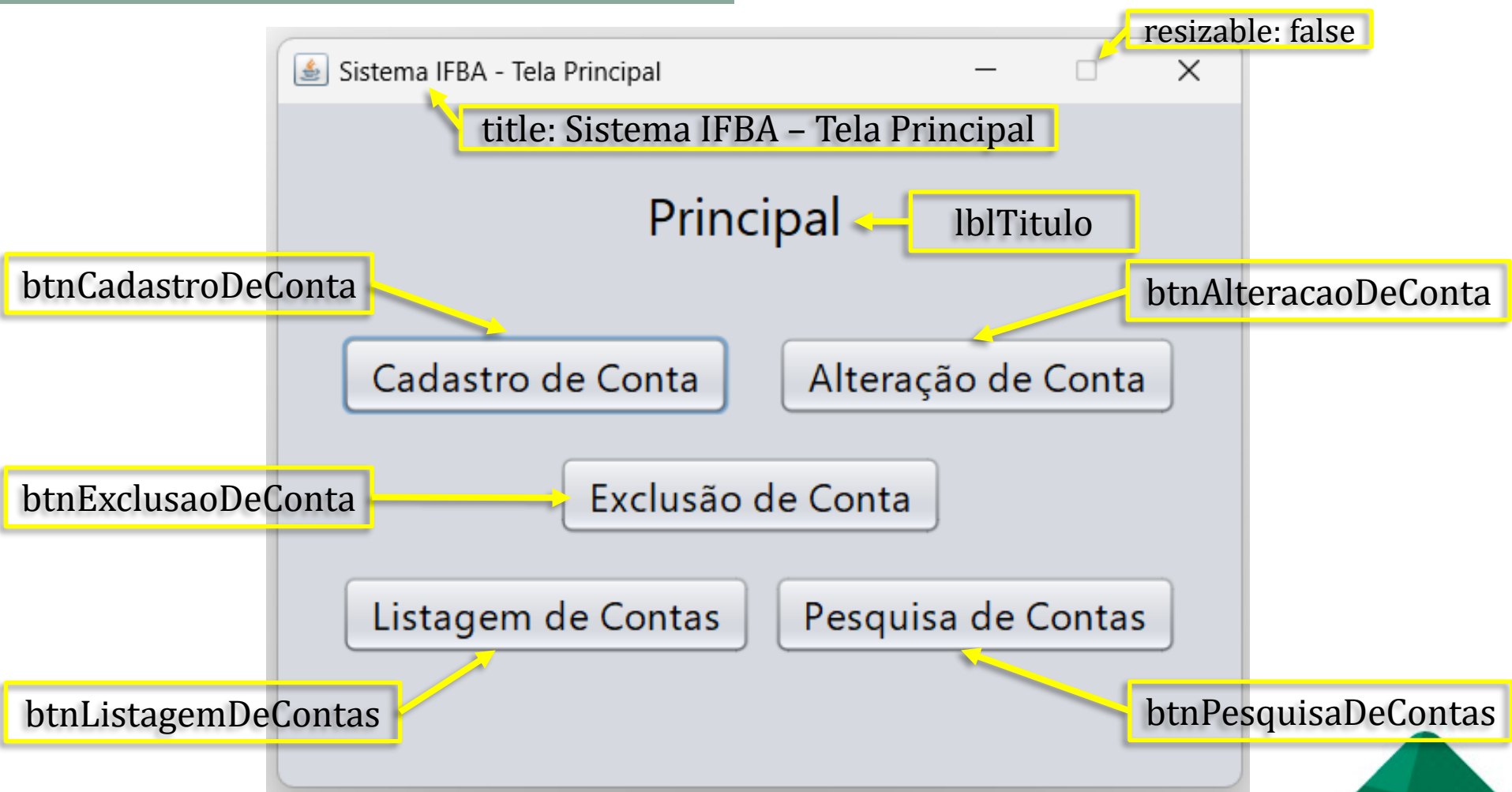
# Tela Principal



# Tela Principal



# Tela Principal



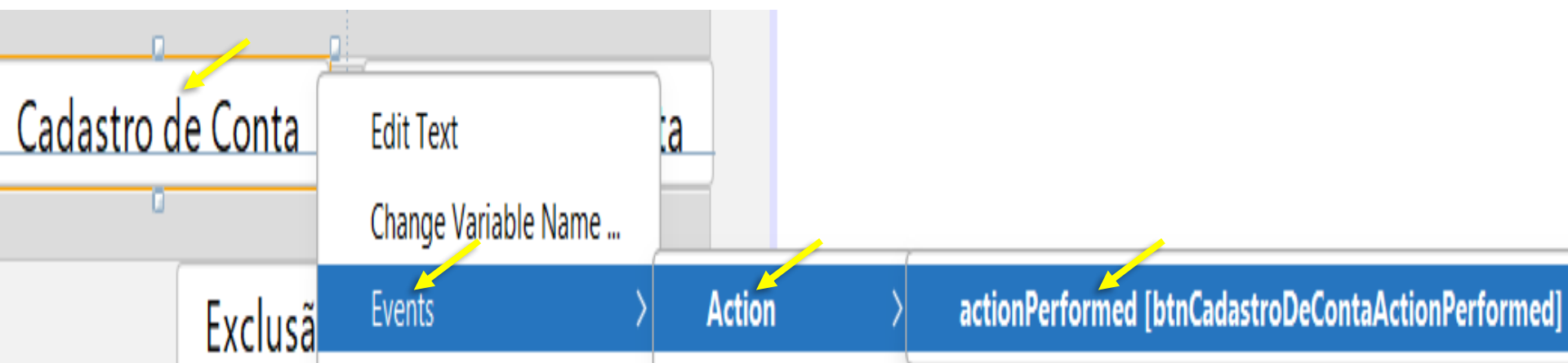
# Tela Principal – Centralizar

```
1 package Principal;
2
3 public class TelaPrincipal extends javax.swing.JFrame {
4
5     public TelaPrincipal() {
6         initComponents();
7
8         this.setLocationRelativeTo(null); ←
9     }
```





# Tela Principal – Evento 1



# Tela Principal – Evento 1

```
private void btnCadastroDeContaActionPerformed(java.awt.event.ActionEvent evt) {  
  
    new TelaDeCadastroDeConta().setVisible(true);  
  
}
```



# Tela Principal – Evento 2

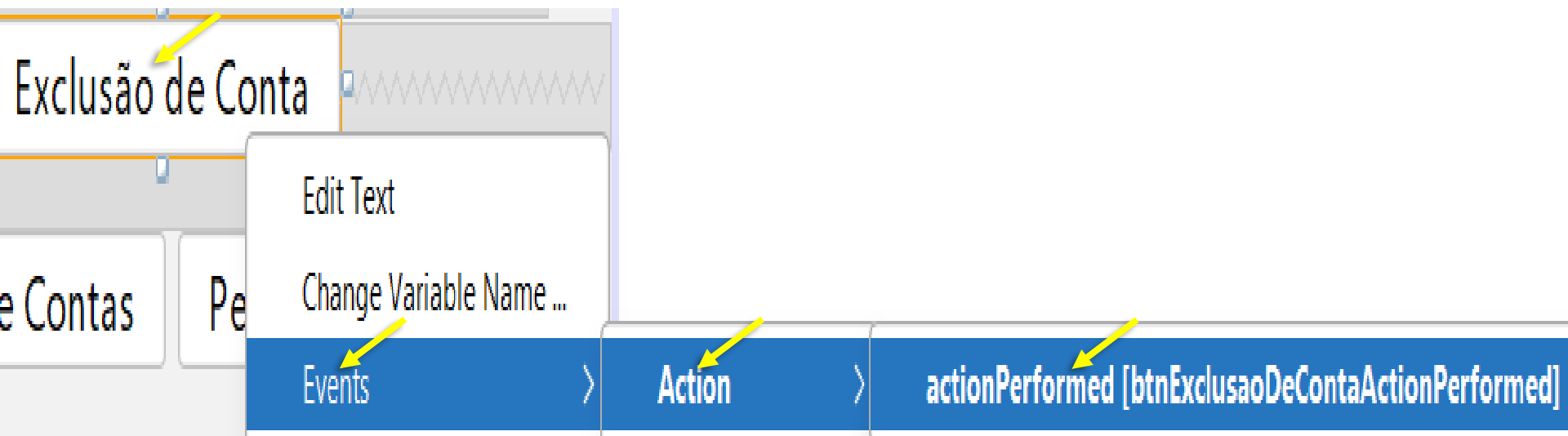


# Tela Principal – Evento 2

```
private void btnAlteracaoDeContaActionPerformed(java.awt.event.ActionEvent evt) {  
  
    new TelaDeAlteracaoDeConta().setVisible(true);  
  
}
```



# Tela Principal – Evento 3

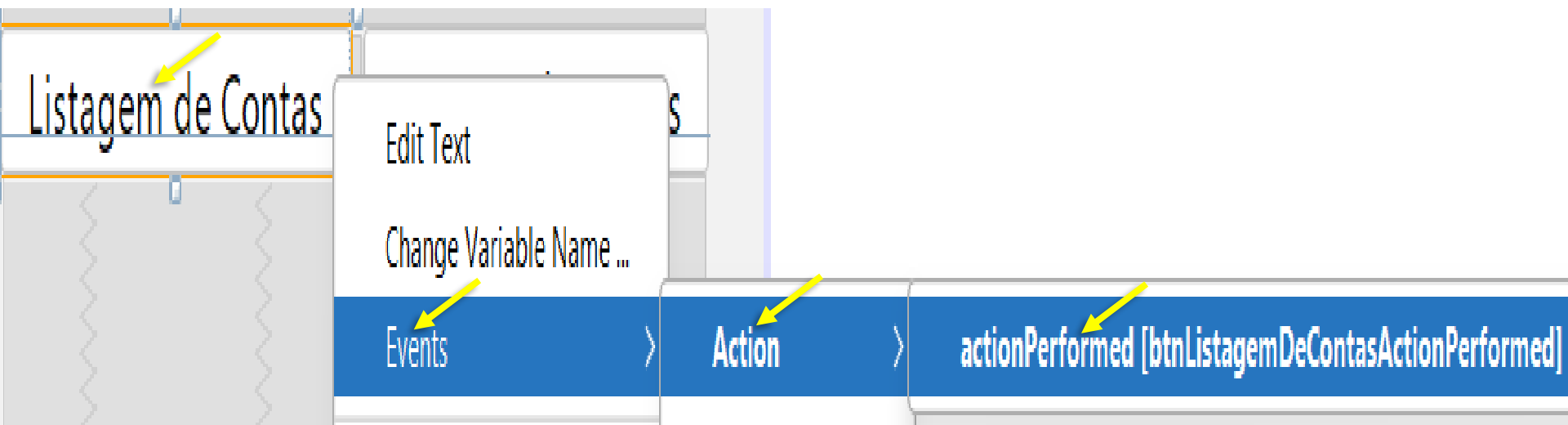


# Tela Principal – Evento 3

```
private void btnExclusaoDeContaActionPerformed(java.awt.event.ActionEvent evt) {  
  
    new TelaDeExclusaoDeConta().setVisible(true);  
  
}
```



# Tela Principal – Evento 4



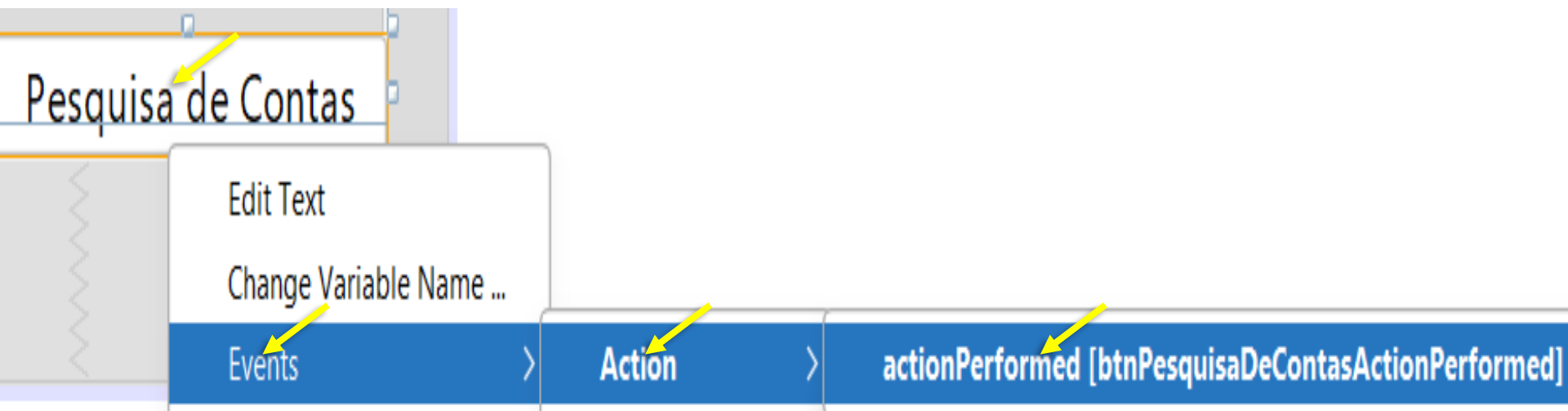
# Tela Principal – Evento 4

```
private void btnListagemDeContasActionPerformed(java.awt.event.ActionEvent evt) {  
  
    new TelaDeListagemDeContas().setVisible(true);  
  
}
```





# Tela Principal – Evento 5



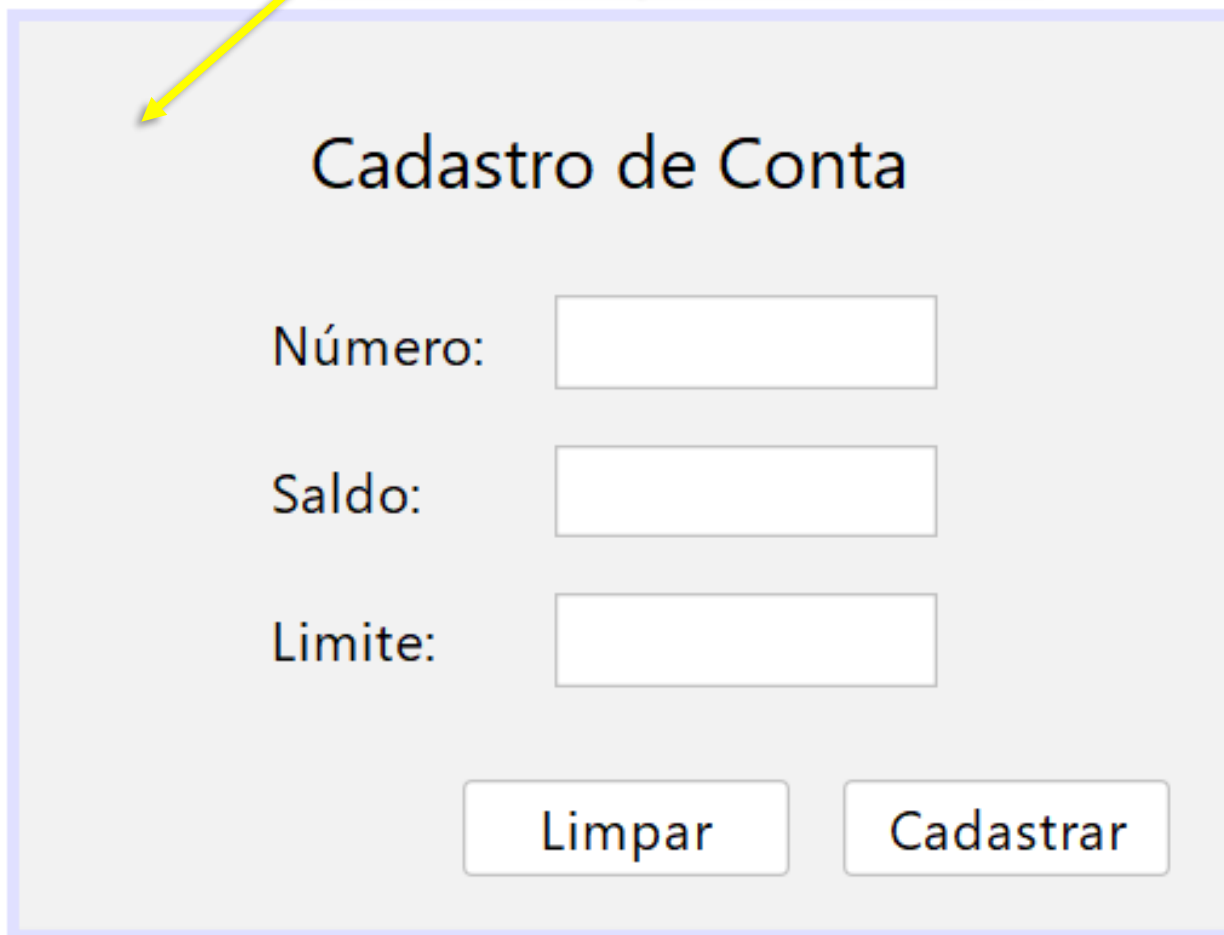
# Tela Principal – Evento 5

```
private void btnPesquisaDeContasActionPerformed(java.awt.event.ActionEvent evt) {  
  
    new TelaDePesquisaDeContas().setVisible(true);  
  
}
```



# Tela de Cadastro de Conta – Mudar Prop.

defaultCloseOperation : DISPOSE



Cadastro de Conta

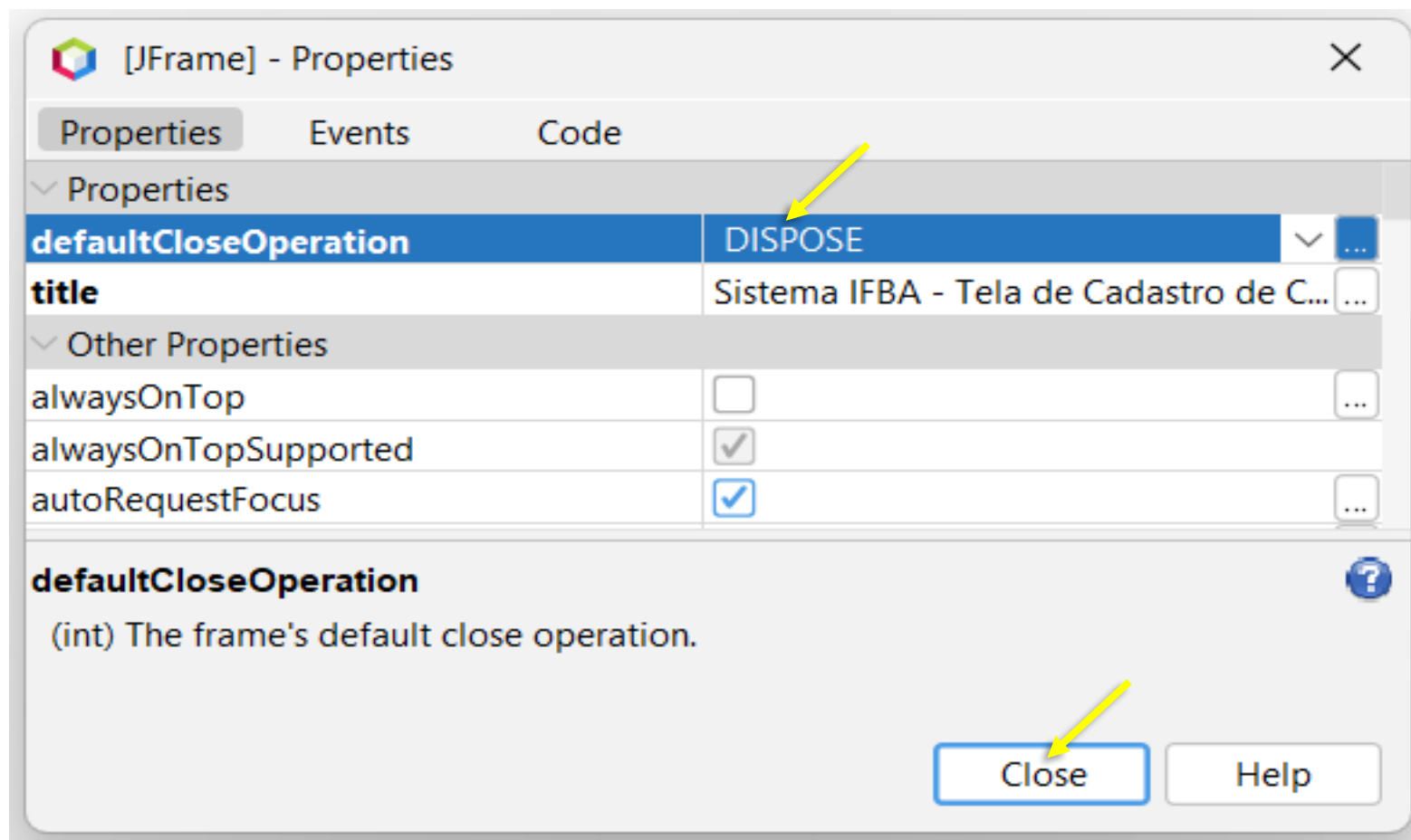
Número:

Saldo:

Limite:



# Tela de Cadastro de Conta – Mudar Prop.




Botão de Fechar agora fecha somente este tela e não o programa inteiro.



# Tela de Alteração de Conta – Mudar Prop.

defaultCloseOperation : DISPOSE



## Alteração de Conta

ID:

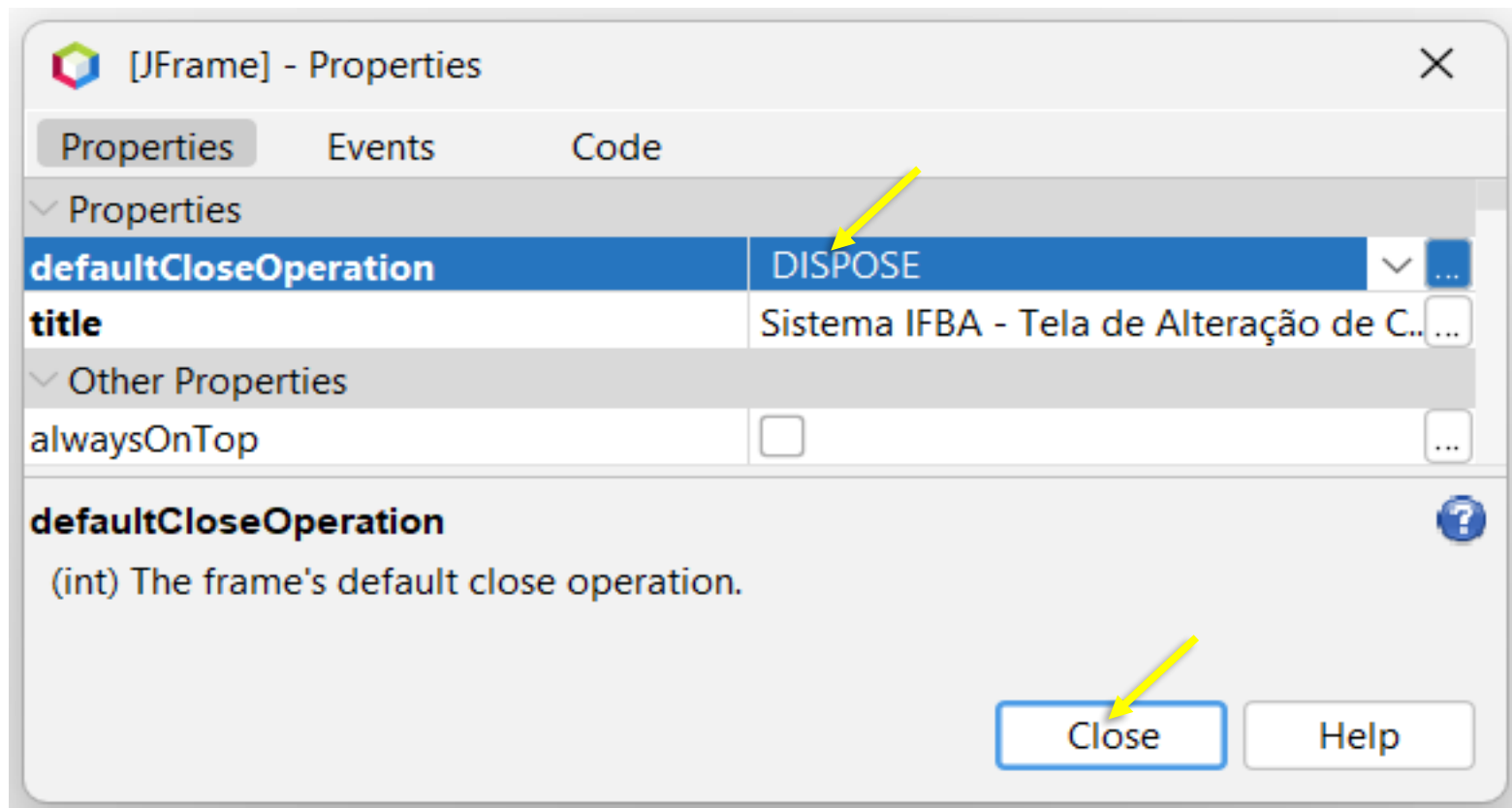
Número:

Saldo:

Limite:



# Tela de Alteração de Conta – Mudar Prop.

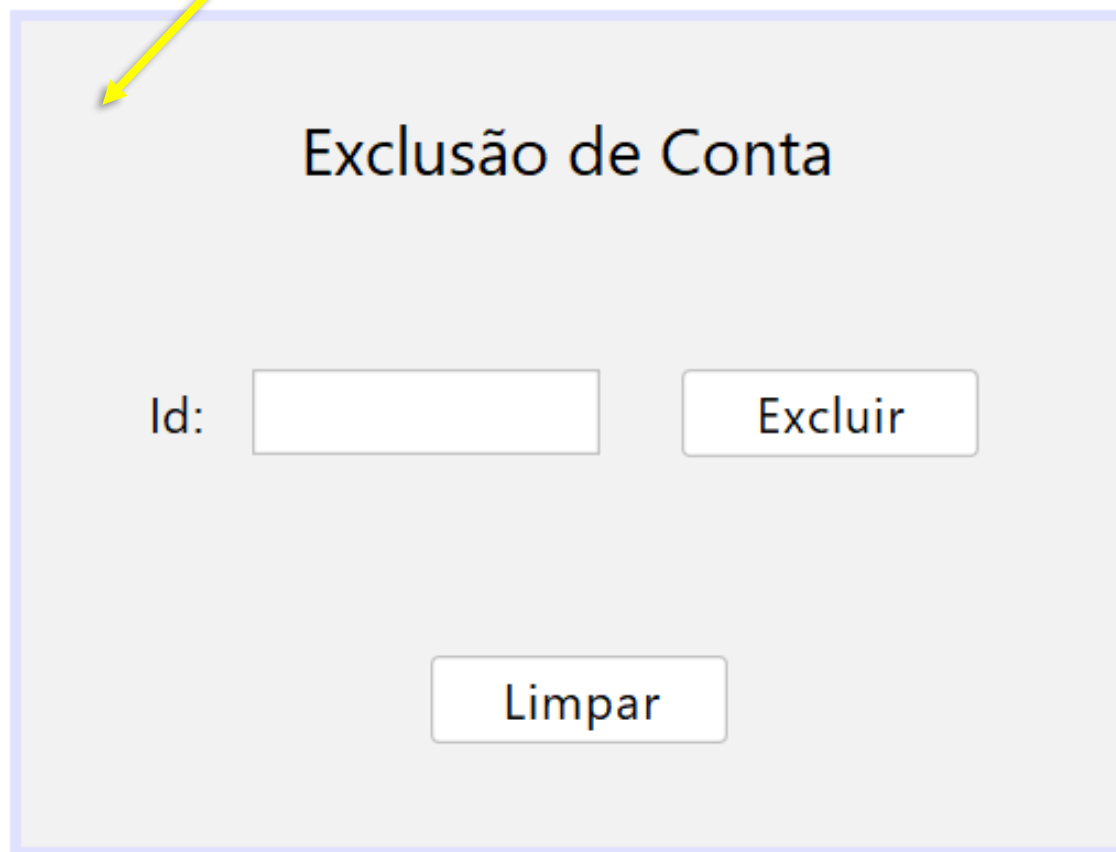


Botão de Fechar agora fecha somente este tela e não o programa inteiro.



# Tela de Exclusão de Conta – Mudar Prop.

defaultCloseOperation : DISPOSE



Exclusão de Conta

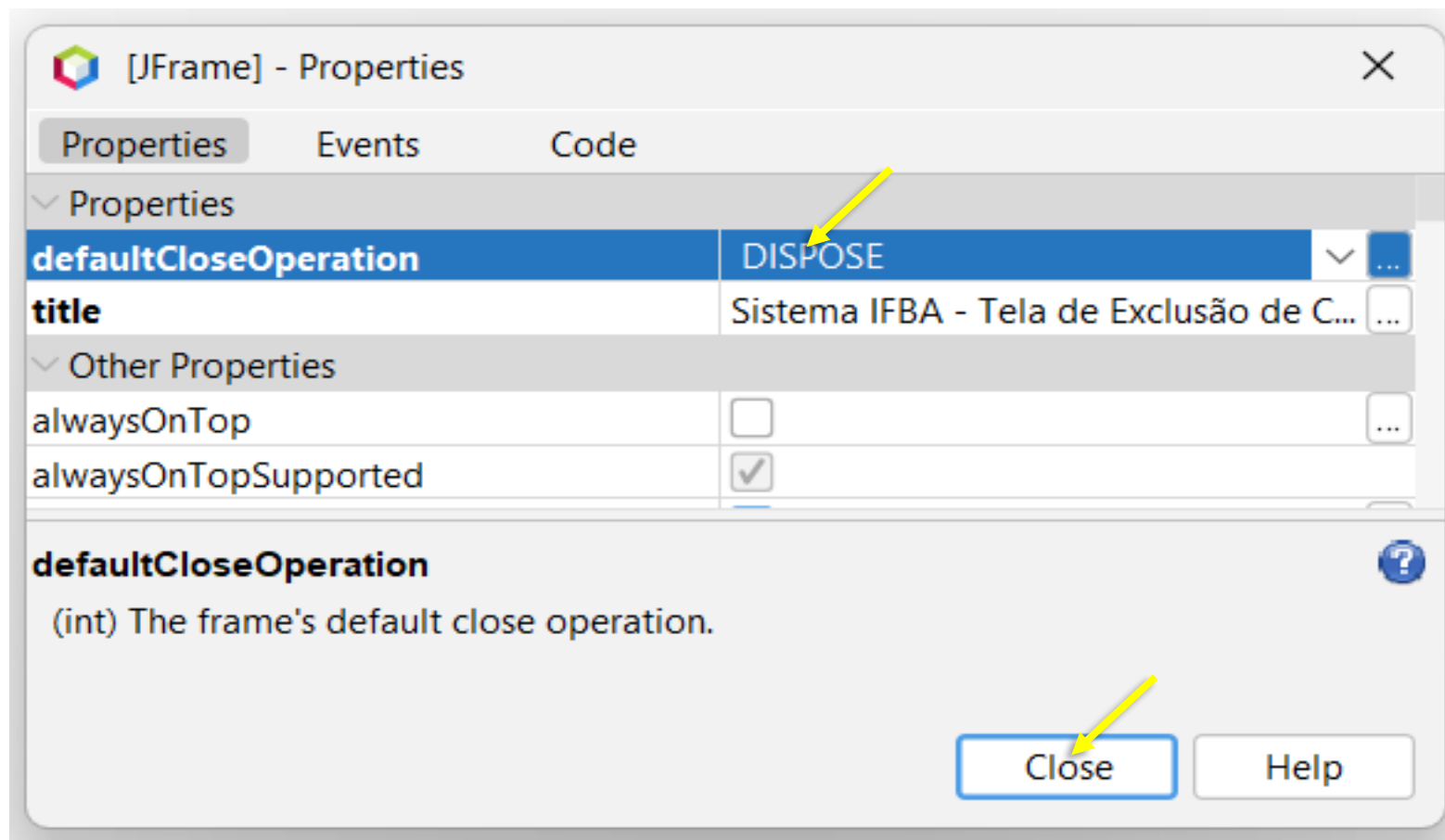
Id:

Excluir

Limpar



# Tela de Exclusão de Conta – Mudar Prop.



Botão de Fechar agora fecha somente este tela e não o programa inteiro.





# Tela de Listagem de Conta – Mudar Prop.

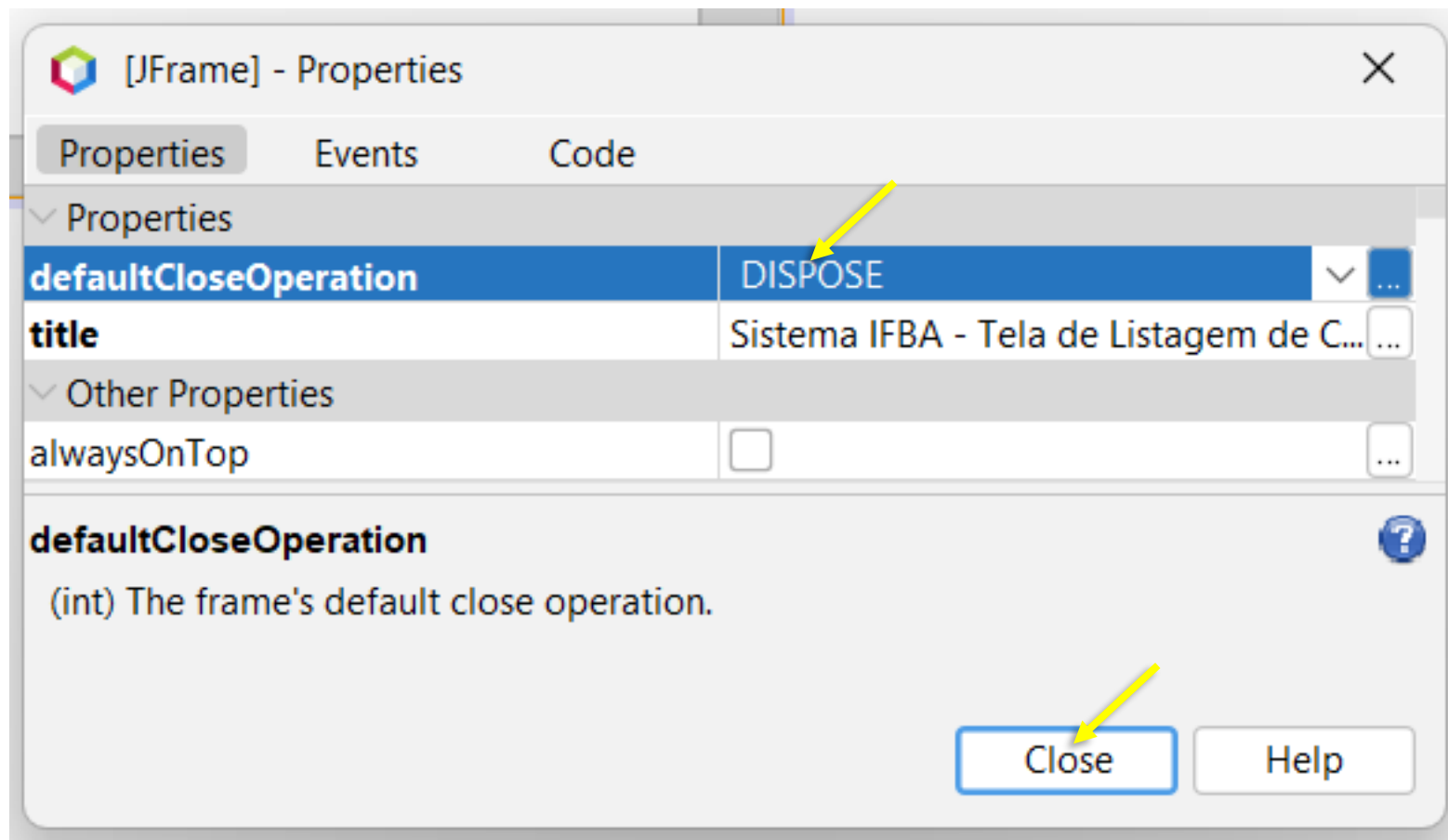
defaultCloseOperation : DISPOSE

Listagem de Contas

ID	NÚMERO	SALDO	LIMITE
----	--------	-------	--------



# Tela de Listagem de Conta – Mudar Prop.



Botão de Fechar agora fecha somente este tela e não o programa inteiro.



# Tela de Pesquisa de Conta – Mudar Prop.

defaultCloseOperation : DISPOSE

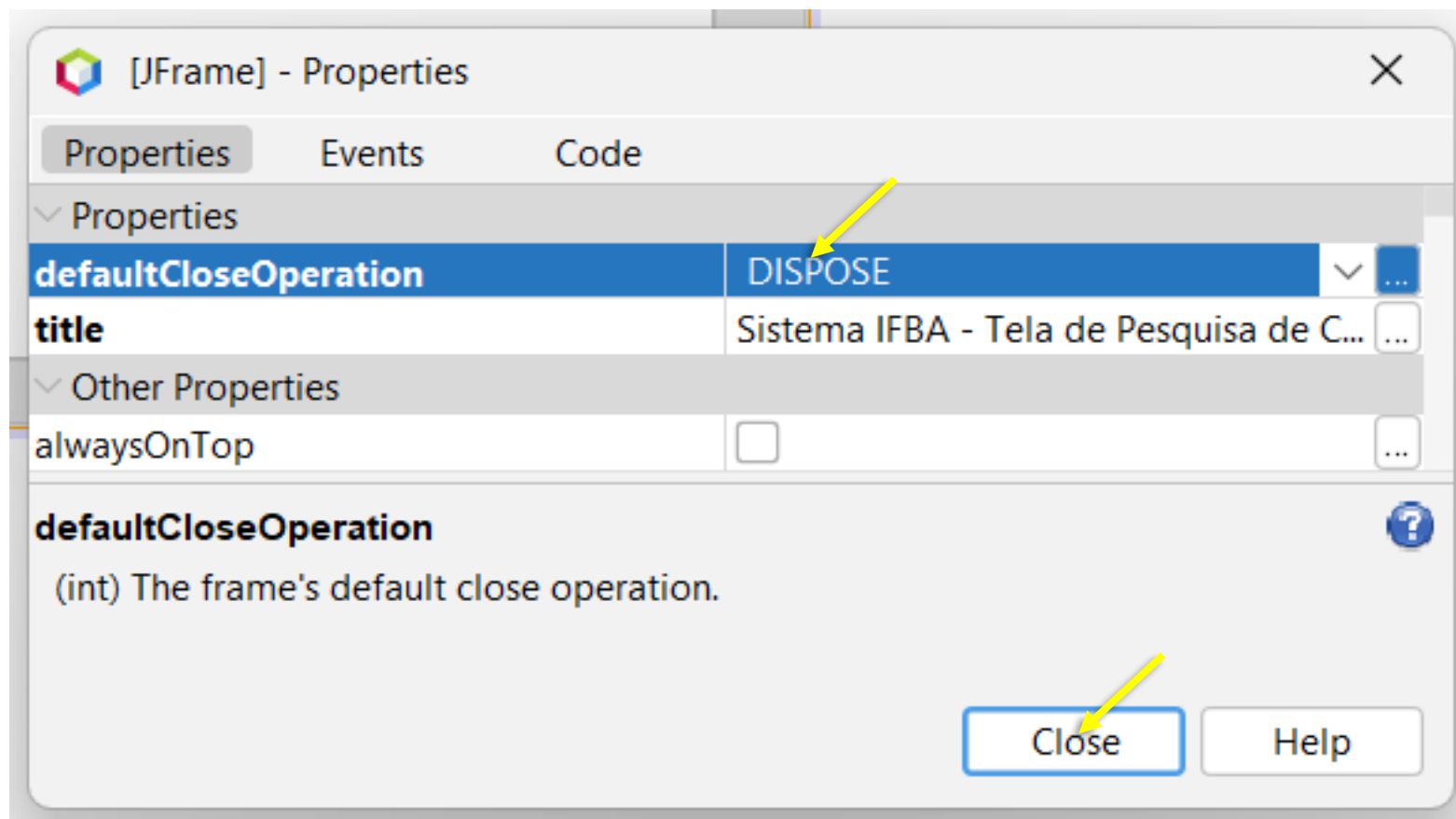
Pesquisa de Contas

Número:

ID	NÚMERO	SALDO	LIMITE
----	--------	-------	--------



# Tela de Pesquisa de Conta – Mudar Prop.



Botão de Fechar agora fecha somente este tela e não o programa inteiro.

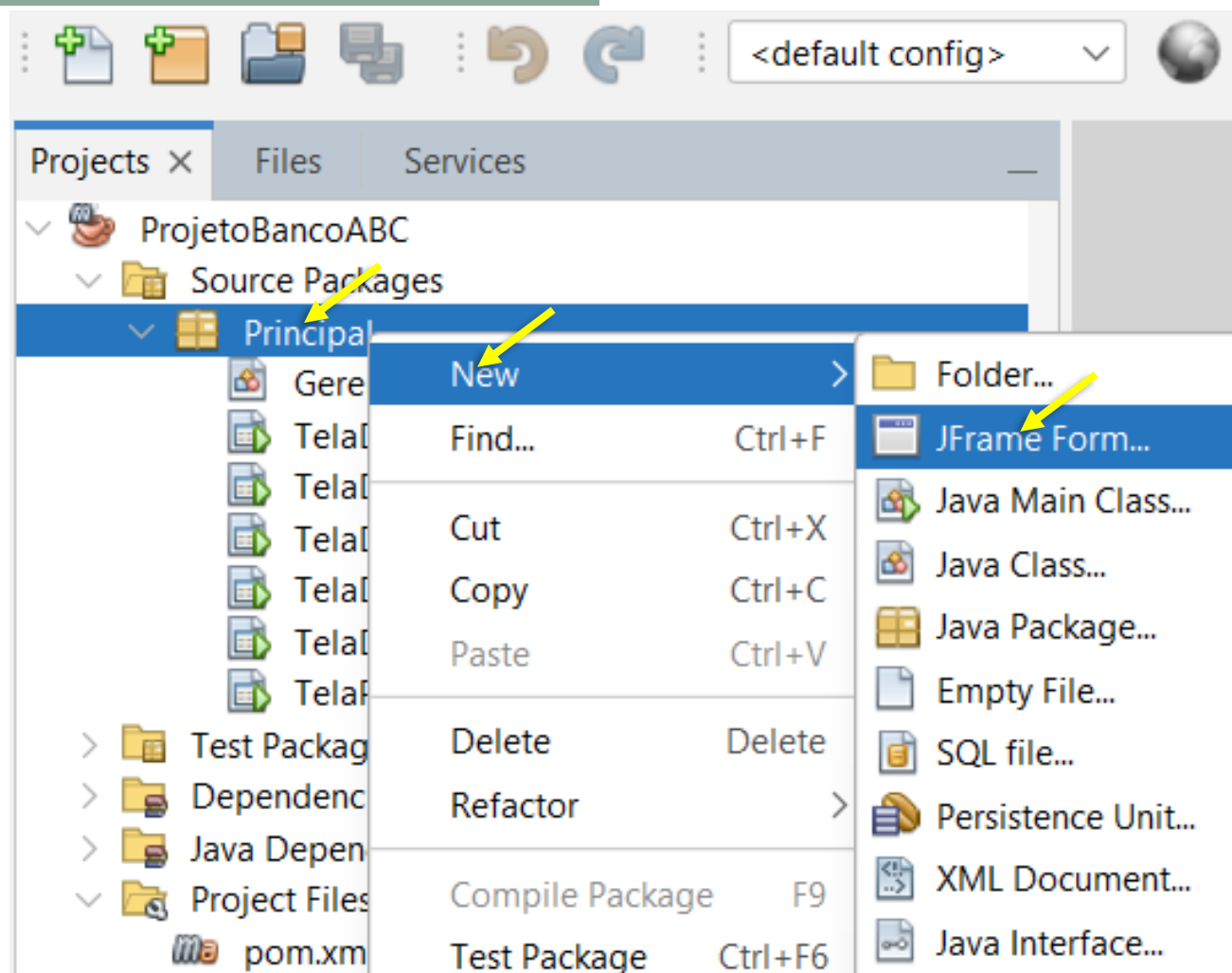


# Criação da Tabela e Insert - Script

```
12
13 CREATE TABLE IF NOT EXISTS `acesso` (
14     `id` INT NOT NULL AUTO_INCREMENT,
15     `usuario` VARCHAR(45) NOT NULL,
16     `senha` VARCHAR(70) NOT NULL,
17     PRIMARY KEY (`id`));
18
19 INSERT INTO `acesso` (`usuario`, `senha`)
20 SELECT 'admin', '1234'
21 WHERE NOT EXISTS (
22     SELECT 1 FROM `acesso` WHERE `id` = 1
23 );
```



# Tela Login



# Tela Login

New JFrame Form

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

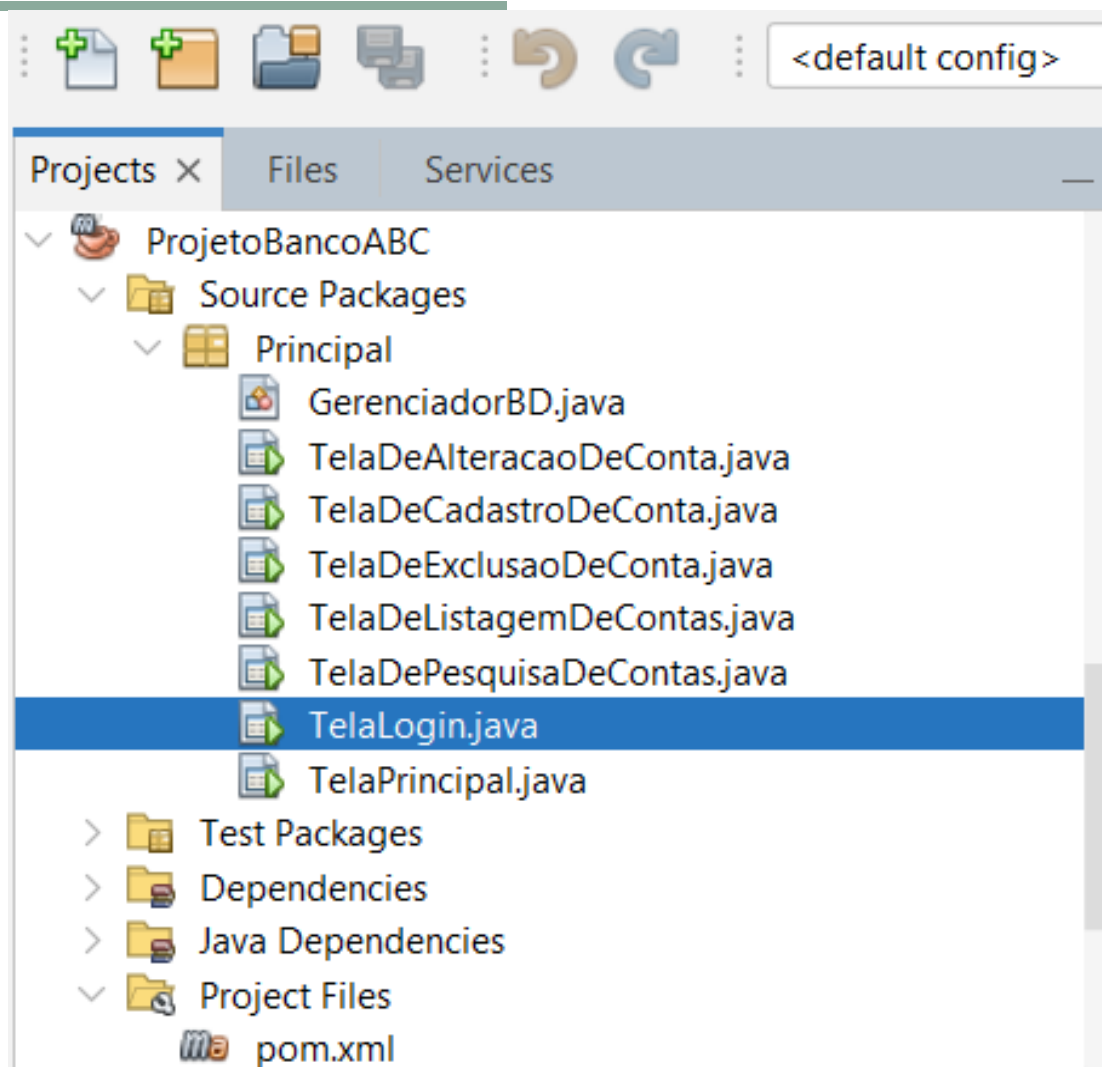
Package:

Created File:

< Back   Next >   **Finish**   Cancel   Help

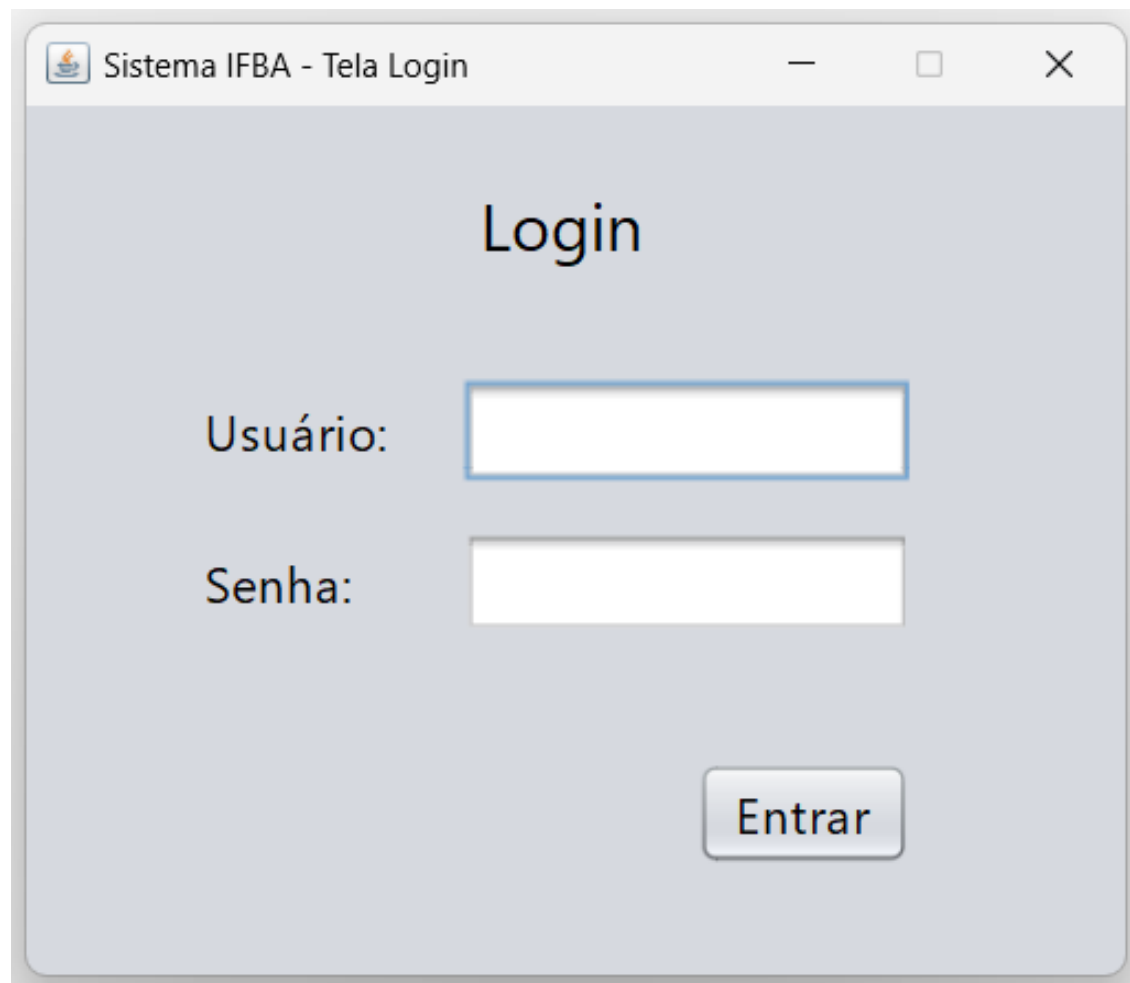


# Tela Login





# Tela Login



The image shows a screenshot of a web browser window titled "Sistema IFBA - Tela Login". The window has a light gray background. In the center, the word "Login" is displayed in a large, black, sans-serif font. Below this, there are two input fields. The first is labeled "Usuário:" and the second is labeled "Senha:". Both labels are in a black, sans-serif font. The input fields are white with a thin blue border. At the bottom right of the form area, there is a button labeled "Entrar" in a black, sans-serif font. The button has a light gray background and a thin gray border. The browser window's title bar includes standard minimize, maximize, and close buttons.

Sistema IFBA - Tela Login

Login

Usuário:

Senha:

Entrar



# Tela Login

resizable: false

title: Sistema IFBA – Tela Login

Login

lblTitulo

lblUsuario → Usuário: txtUsuario

lblSenha → Senha: txpSenha

Entrar

btnEntrar



# Tela Login - Import

```
1  package Principal;
2
3  import java.sql.Connection;
4  import java.sql.PreparedStatement;
5  import java.sql.ResultSet;
6  import javax.swing.JOptionPane;
7
8  public class TelaLogin extends javax.swing.JFrame {
9
10     public TelaLogin () {
11         initComponents ();
12
13         this.setLocationRelativeTo (null) ;
14     }
```

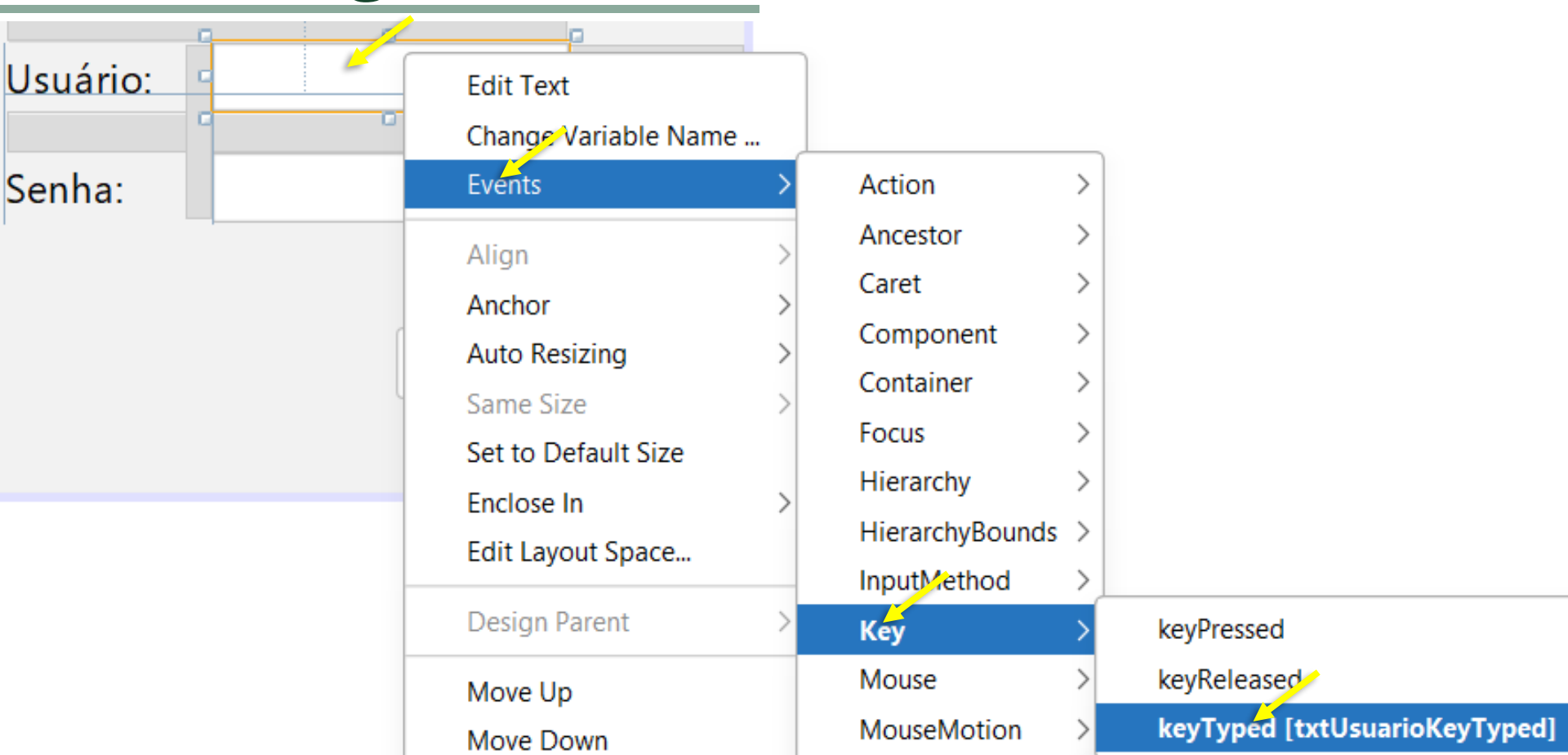


# Tela Login - Centralizar

```
1 package Principal;
2
3 import java.sql.Connection;
4 import java.sql.PreparedStatement;
5 import java.sql.ResultSet;
6 import javax.swing.JOptionPane;
7
8 public class TelaLogin extends javax.swing.JFrame {
9
10     public TelaLogin () {
11         initComponents ();
12
13         this.setLocationRelativeTo (null) ;
14     }
```



# Tela Login – Evento 1

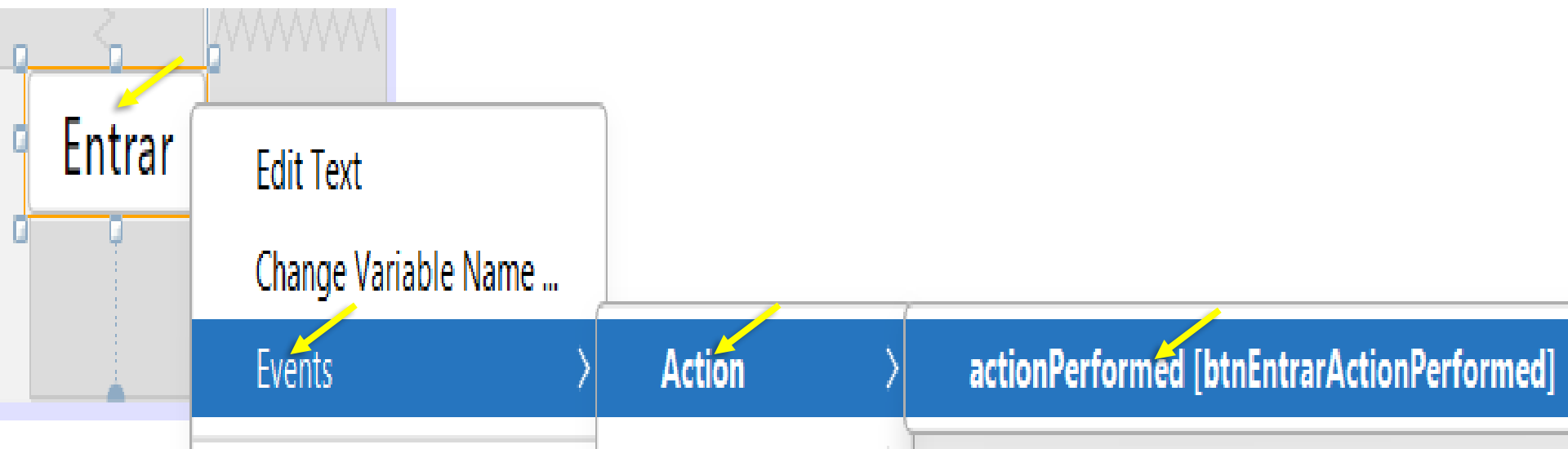


# Tela Login – Evento 1

```
private void txtUsuarioKeyTyped(java.awt.event.KeyEvent evt) {  
  
    char c = evt.getKeyChar();  
  
    if (!Character.isAlphabetic(c) && !Character.isDigit(c)) {  
        evt.consume();  
    }  
}
```



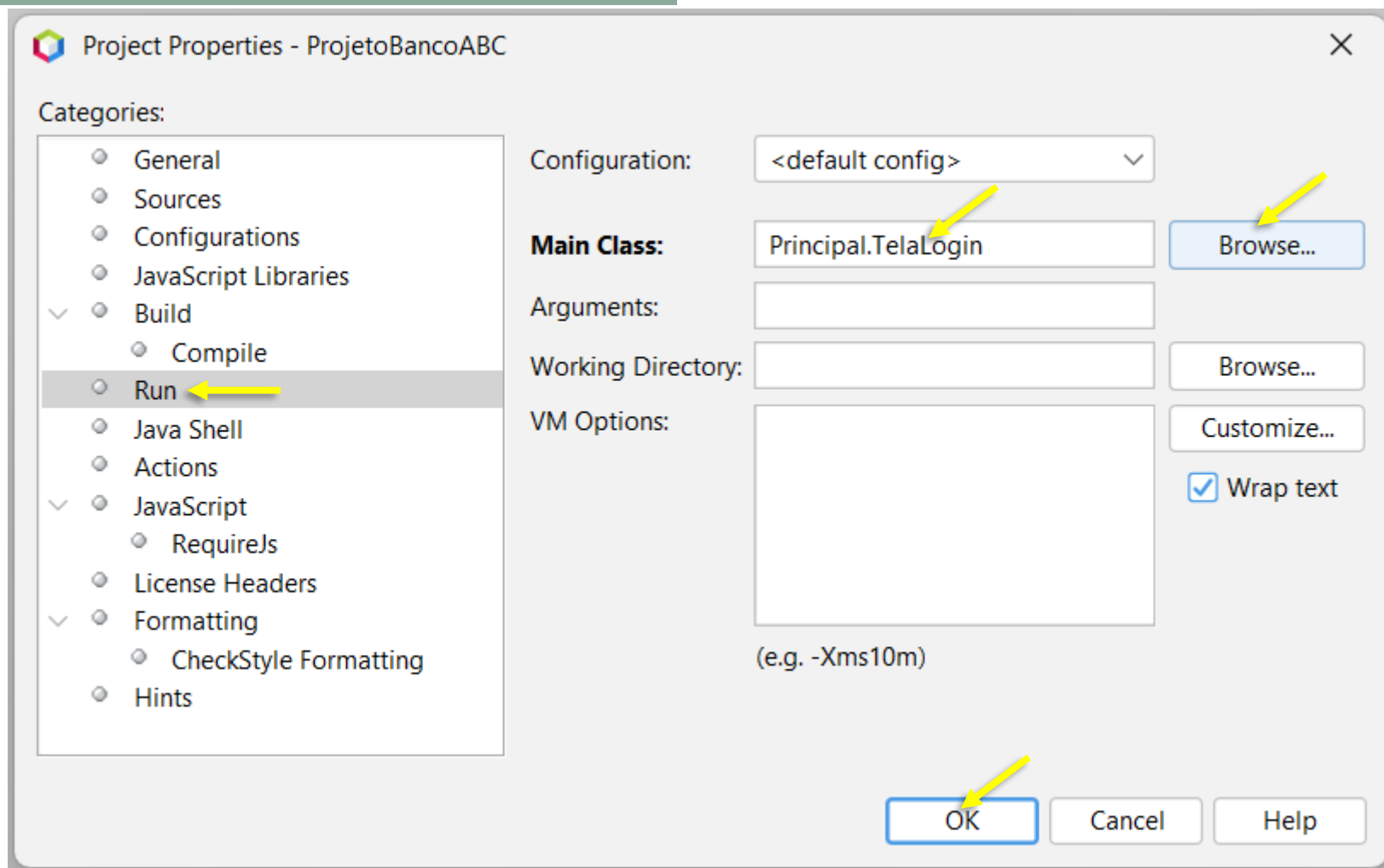
# Tela Login – Evento 2



```
private void btnEntrarActionPerformed(java.awt.event.ActionEvent evt) {  
    String usuario = txtUsuario.getText();  
    String senha = String.valueOf(txpSenha.getPassword());  
  
    GerenciadorBD bd = new GerenciadorBD();  
  
    try (Connection conexao = bd.conectar();  
        PreparedStatement comando = conexao.prepareStatement(  
            "SELECT id FROM acesso WHERE usuario = ? AND senha = ?")  
        )  
    {  
        comando.setString(1, usuario);  
        comando.setString(2, senha);  
  
        try (ResultSet resultado = comando.executeQuery()) {  
            if (resultado.next()) {  
                new TelaPrincipal().setVisible(true);  
                this.dispose();  
            } else {  
                JOptionPane.showMessageDialog(this, "Acesso negado!");  
            }  
        }  
    }  
    catch (Exception e) {  
        JOptionPane.showMessageDialog(this, "Erro ao tentar entrar no sistema!");  
    }  
}
```



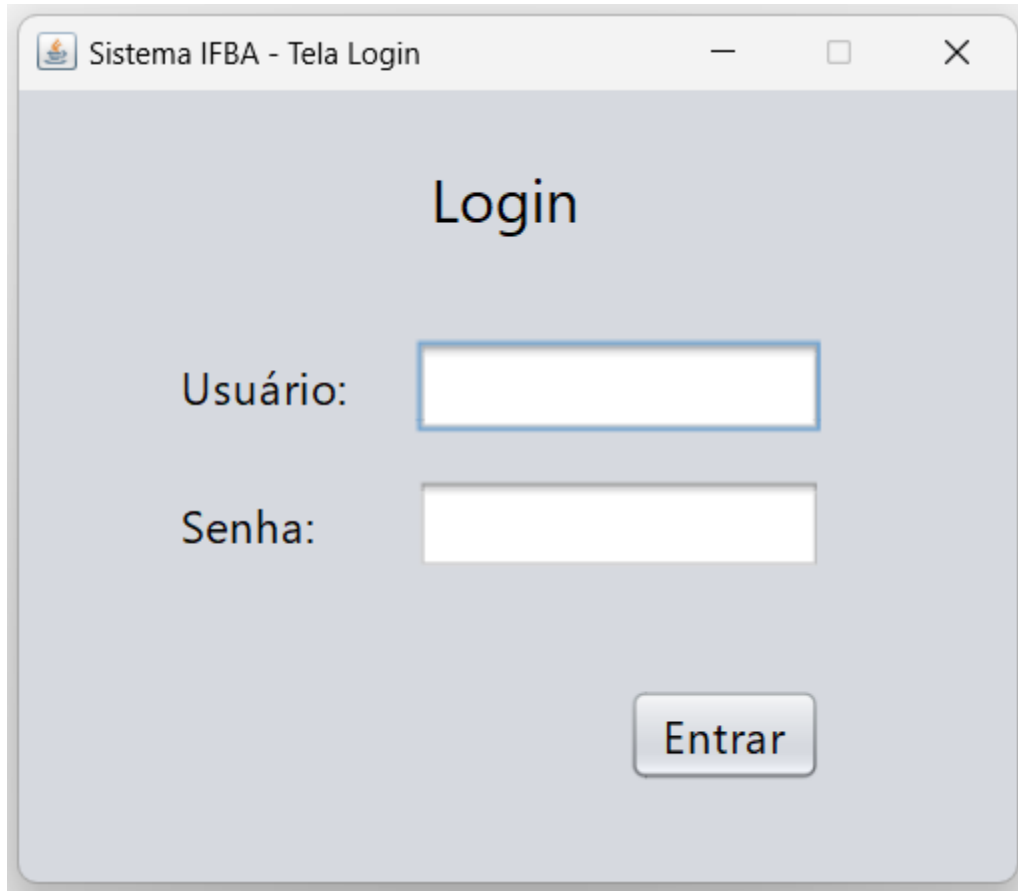
# Tela Login – Abrir ao Executar Projeto



Botão direito sobre o nome do projeto e  
clica em Properties para abrir a tela.

# Java Swing – Exercício – Login e Principal

Execução

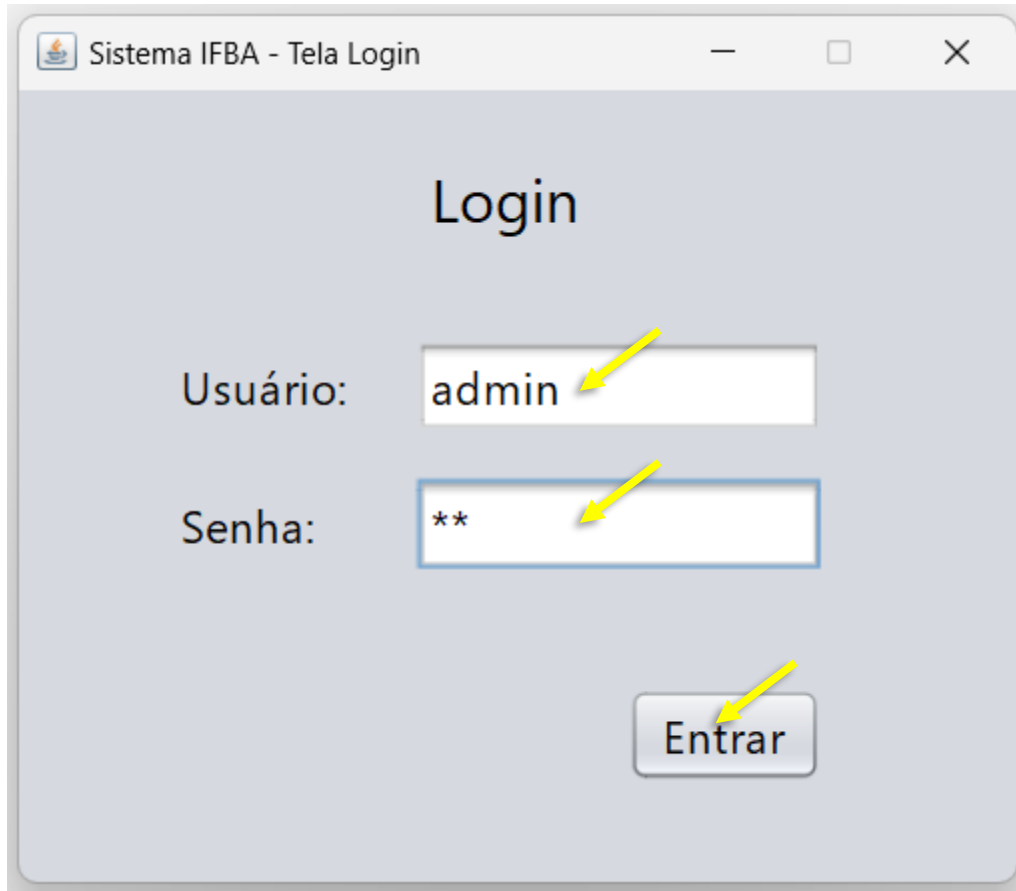


The screenshot shows a Java Swing window titled "Sistema IFBA - Tela Login". The window has a light gray background and a standard title bar with minimize, maximize, and close buttons. The main content area is titled "Login" in a large, black, sans-serif font. Below the title, there are two labels: "Usuário:" and "Senha:". To the right of each label is a white text input field with a blue border. At the bottom right of the window, there is a button labeled "Entrar" with a light gray background and a blue border.



# Java Swing – Exercício – Login e Principal

Execução

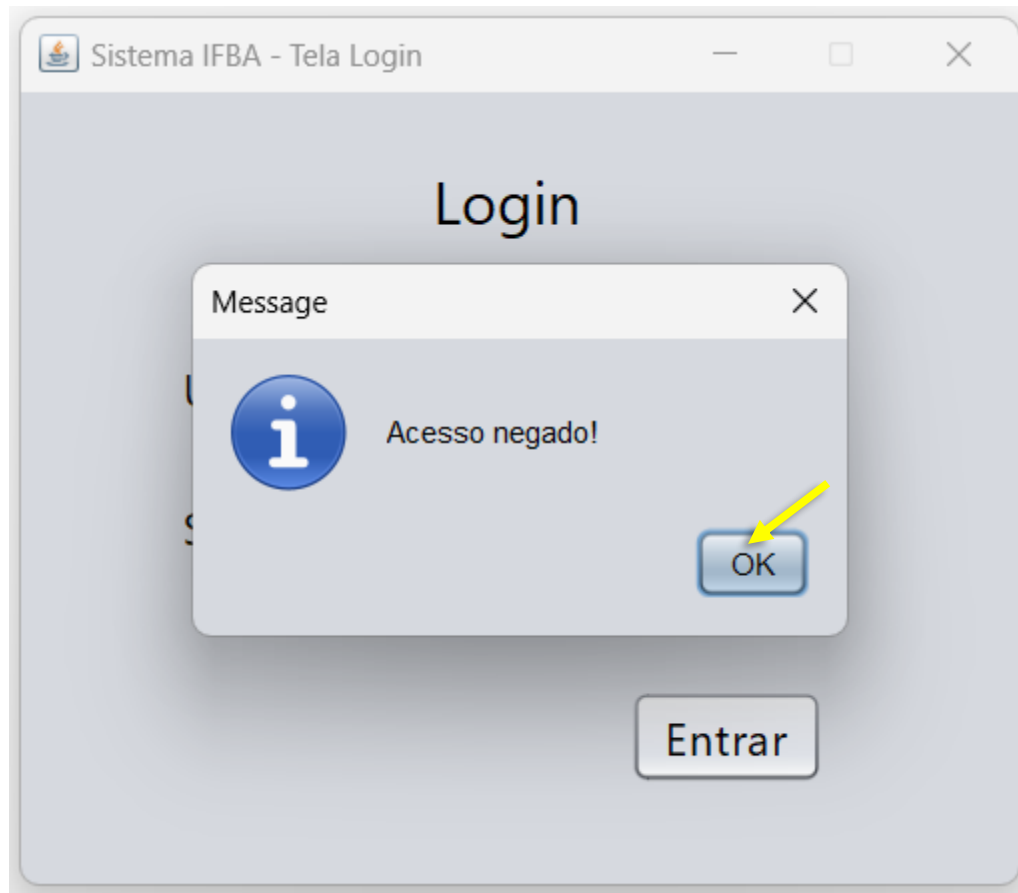


The screenshot shows a Java Swing window titled "Sistema IFBA - Tela Login". The window has a light gray background and a title bar with standard Windows controls. The main content area is titled "Login" in a large, black, sans-serif font. Below the title, there are two input fields. The first field is labeled "Usuário:" and contains the text "admin". The second field is labeled "Senha:" and contains two asterisks "\*\*". Both input fields have a blue border and a yellow arrow pointing to them. Below the input fields, there is a button labeled "Entrar" with a yellow arrow pointing to it. The button has a light gray background and a dark gray border.



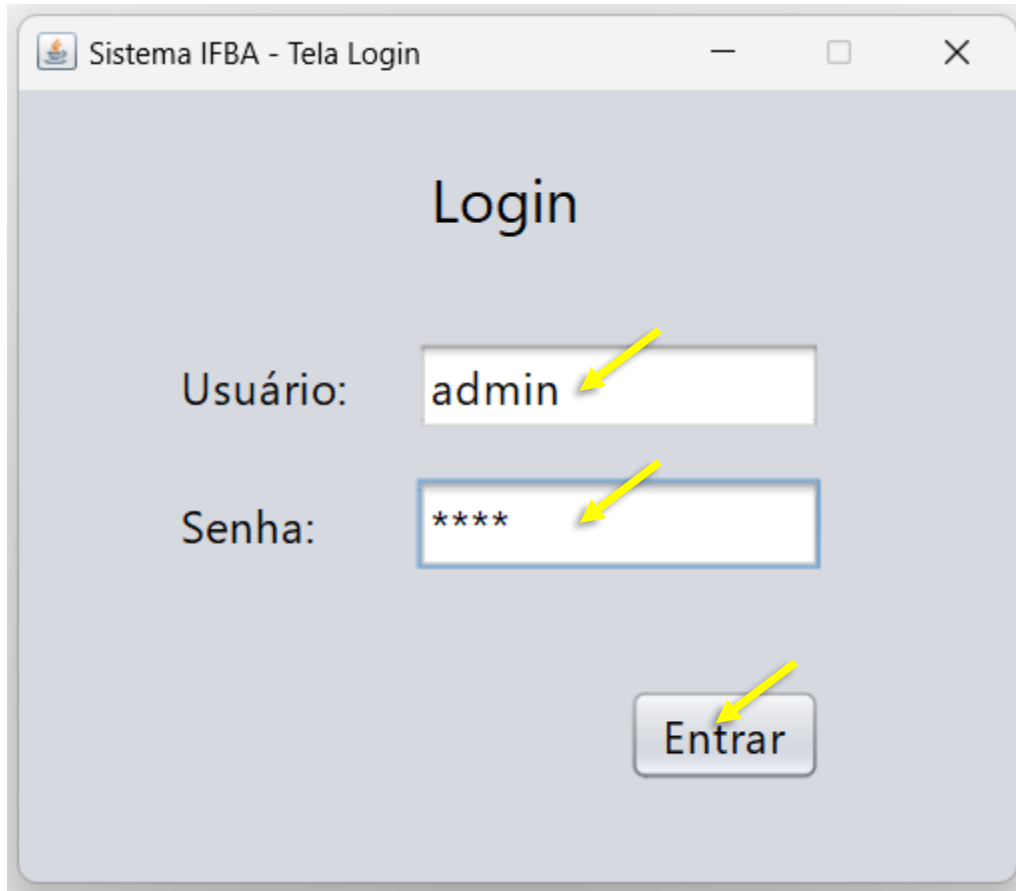
# Java Swing – Exercício – Login e Principal

Execução



# Java Swing – Exercício – Login e Principal

Execução



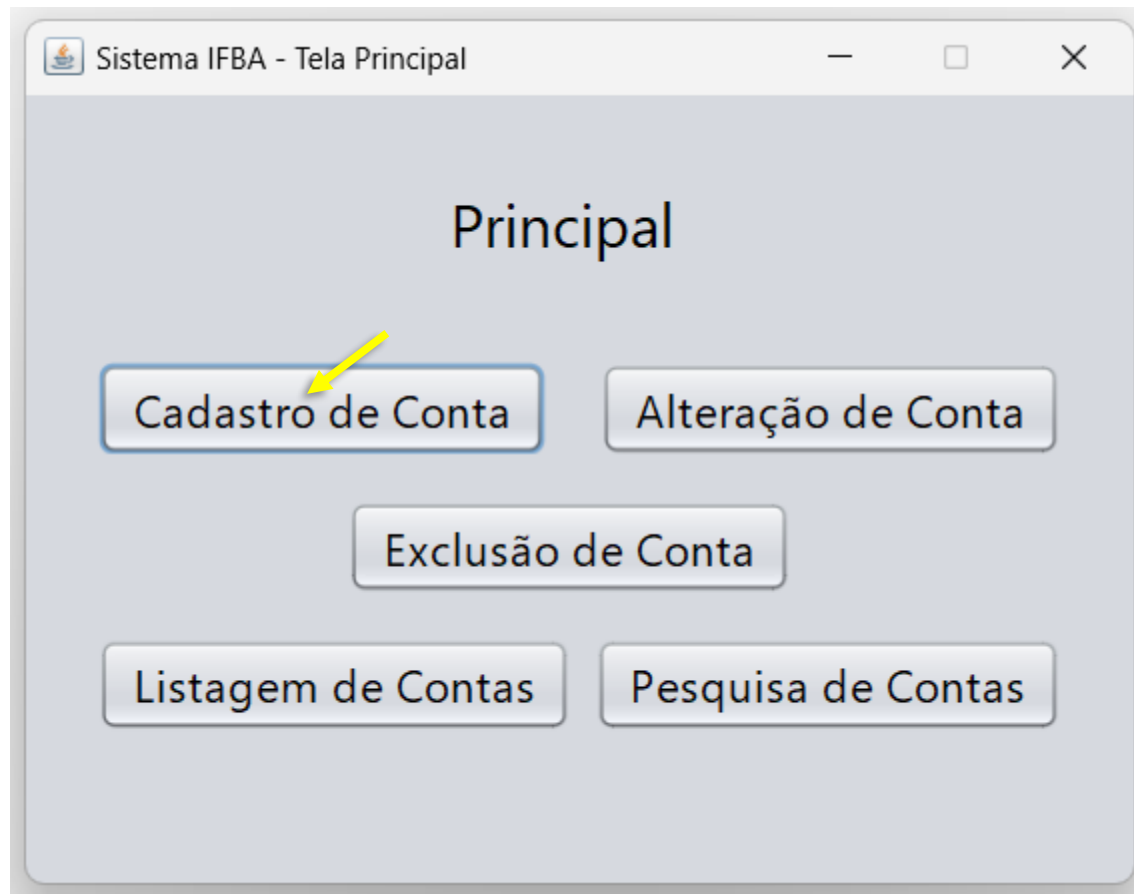
The screenshot shows a Java Swing window titled "Sistema IFBA - Tela Login". The window has a light gray background and contains the following elements:

- A title bar with standard Windows window controls (minimize, maximize, close).
- A centered heading "Login".
- A label "Usuário:" followed by a text input field containing the text "admin". A yellow arrow points to the input field.
- A label "Senha:" followed by a password input field containing four asterisks "\*\*\*\*". A yellow arrow points to the input field.
- A button labeled "Entrar" at the bottom right. A yellow arrow points to the button.



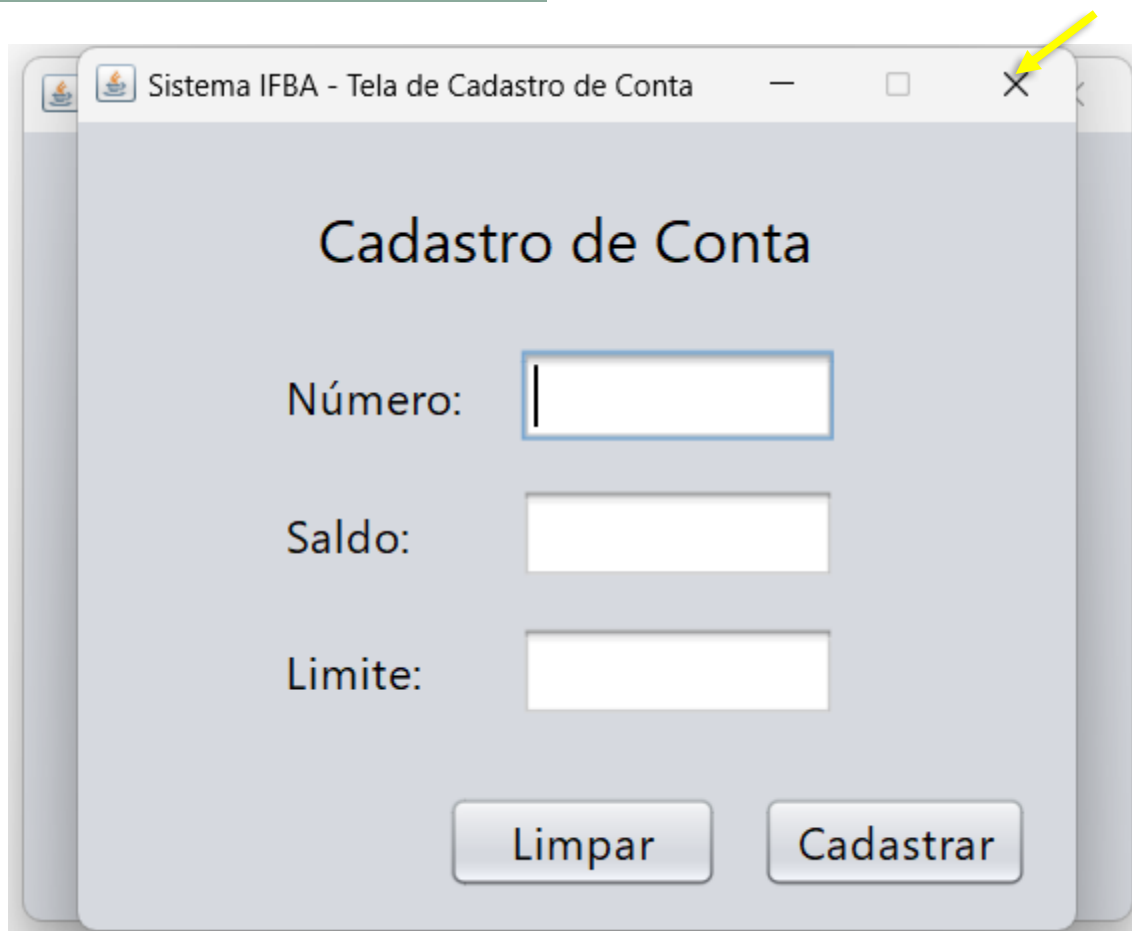
# Java Swing – Exercício – Login e Principal

Execução



# Java Swing – Exercício – Login e Principal

Execução



Sistema IFBA - Tela de Cadastro de Conta

## Cadastro de Conta

Número:

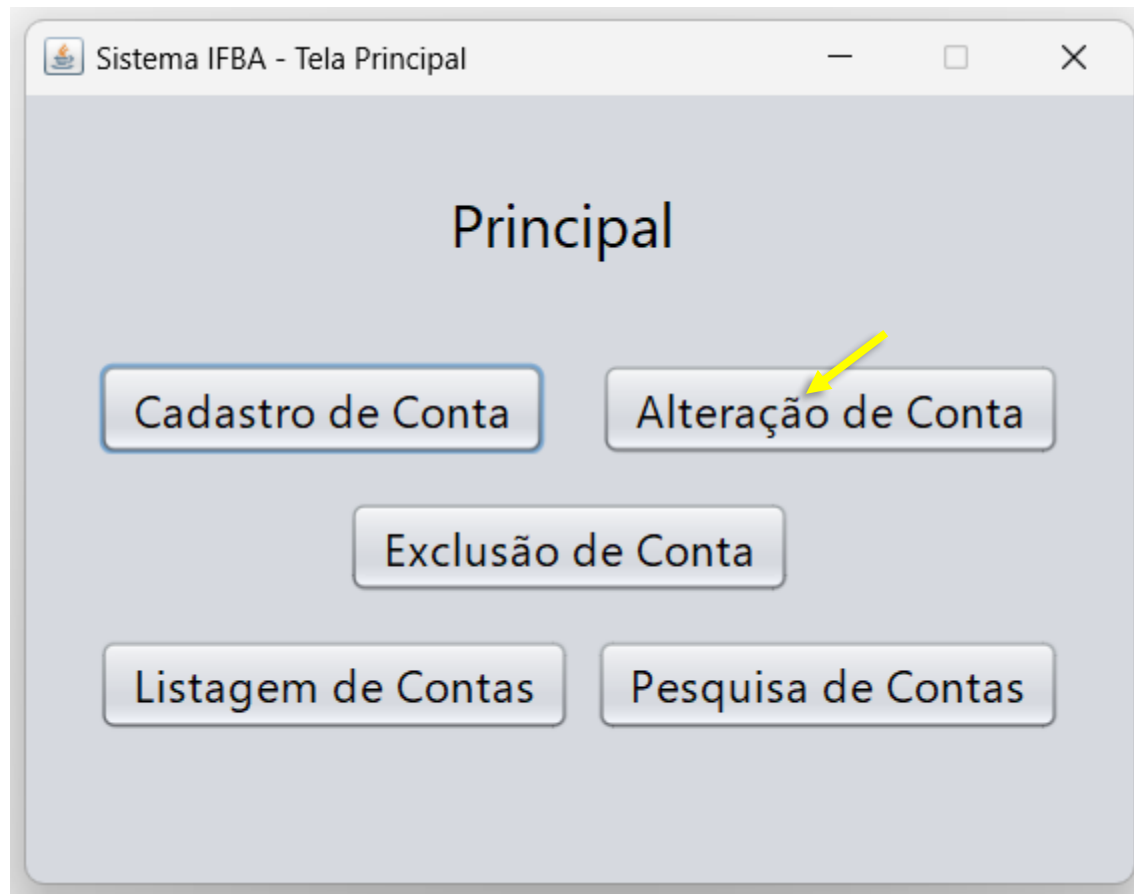
Saldo:

Limite:



# Java Swing – Exercício – Login e Principal

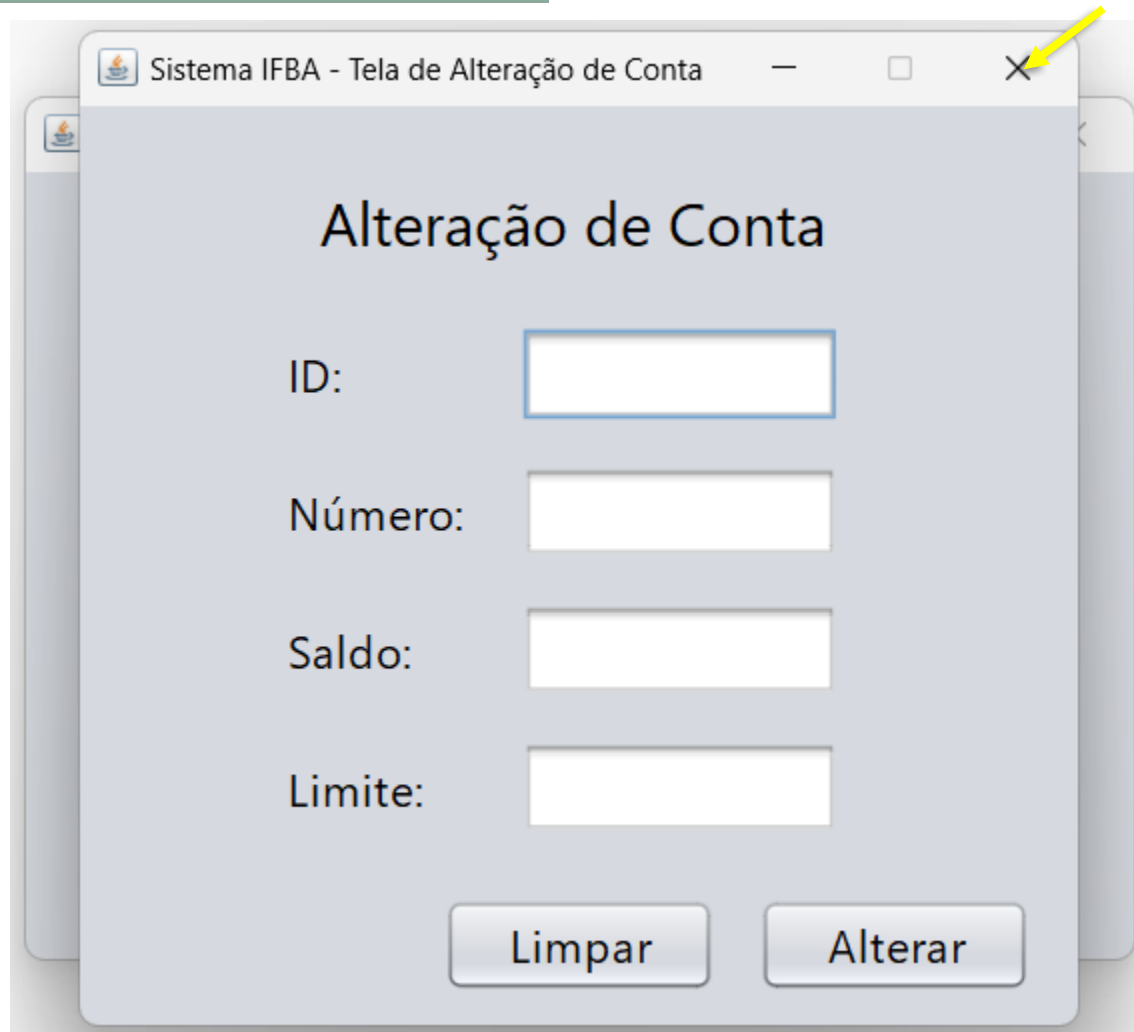
Execução





# Java Swing – Exercício – Login e Principal

Execução



Sistema IFBA - Tela de Alteração de Conta

## Alteração de Conta

ID:

Número:

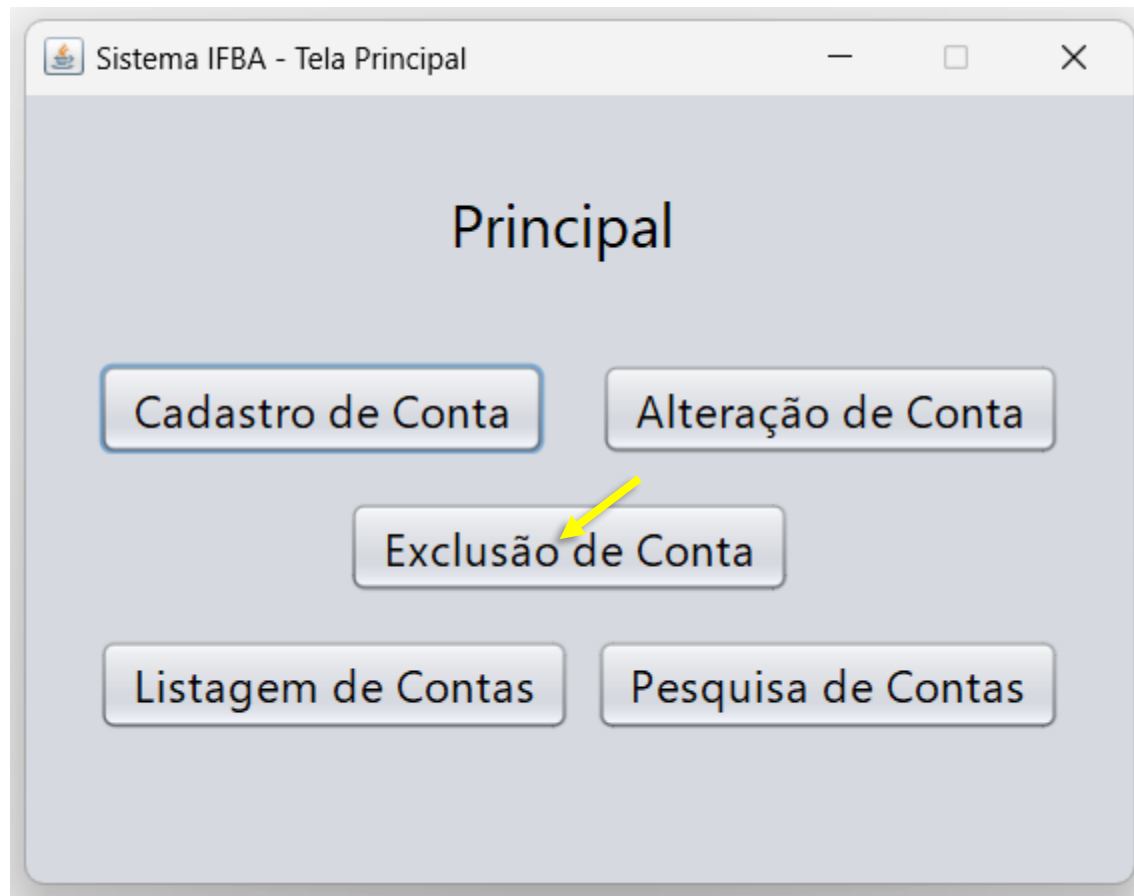
Saldo:

Limite:



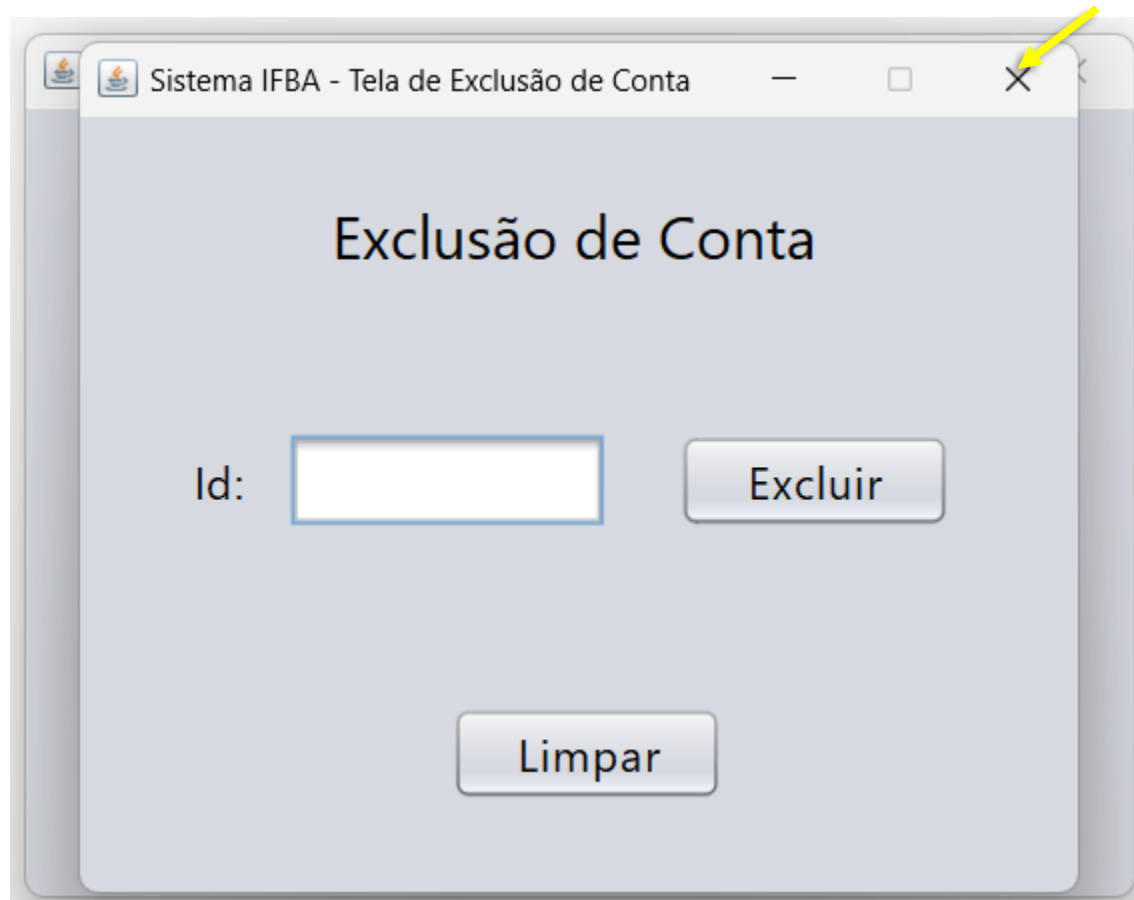
# Java Swing – Exercício – Login e Principal

Execução



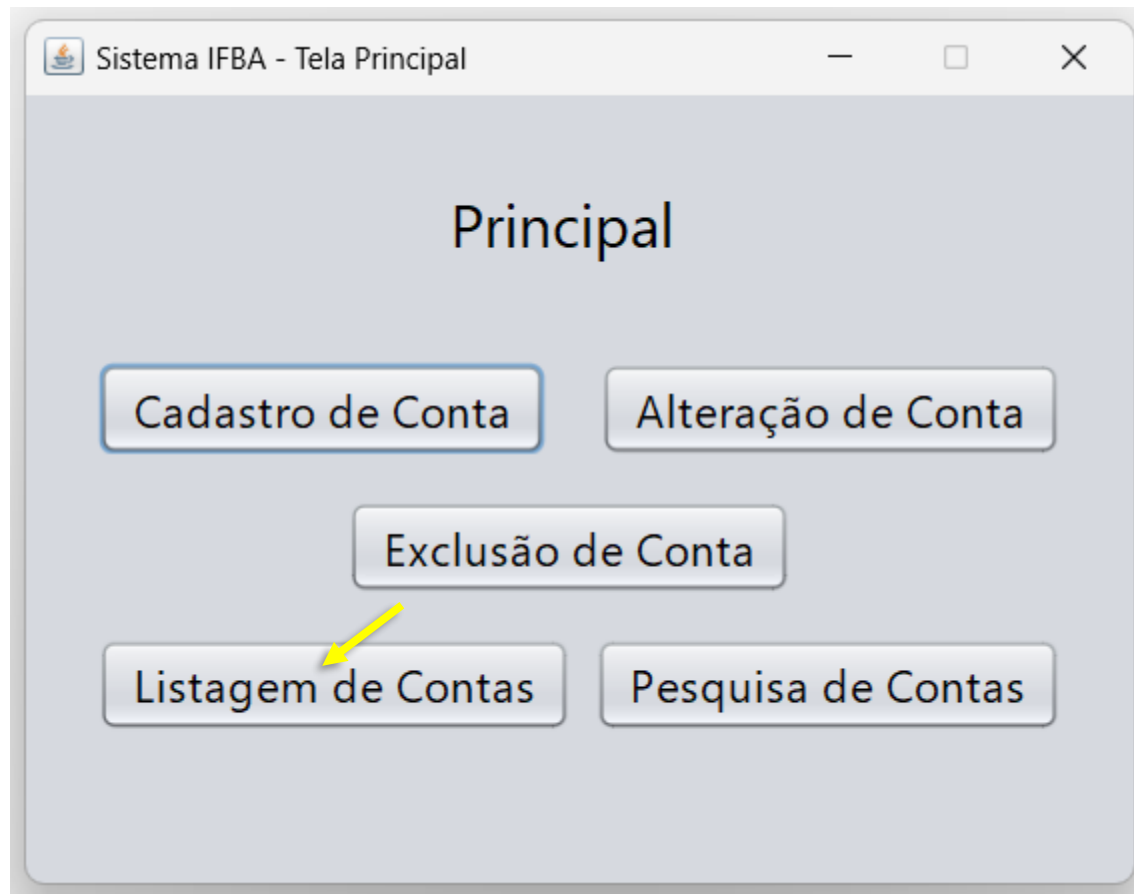
# Java Swing – Exercício – Login e Principal

Execução



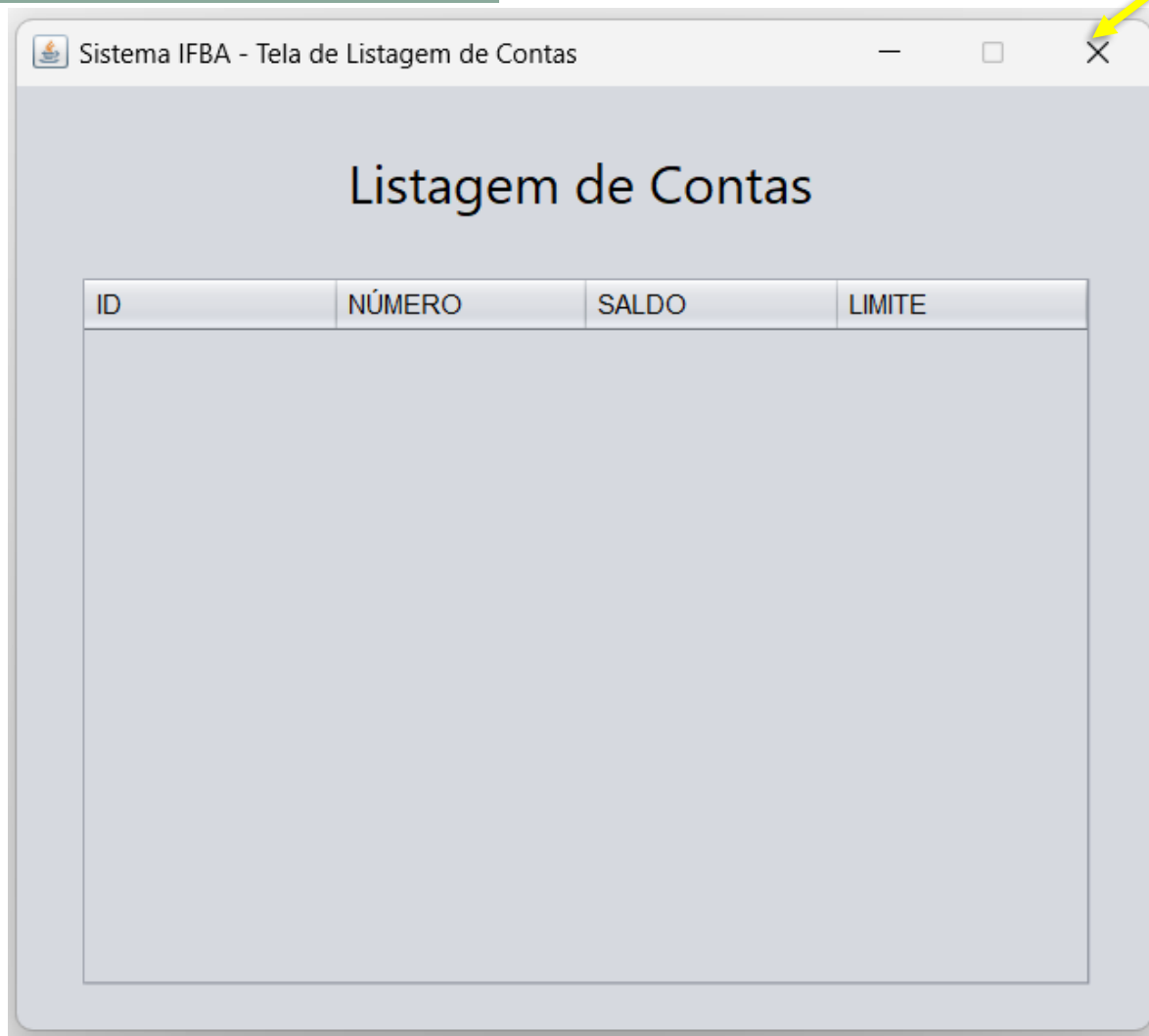
# Java Swing – Exercício – Login e Principal

Execução



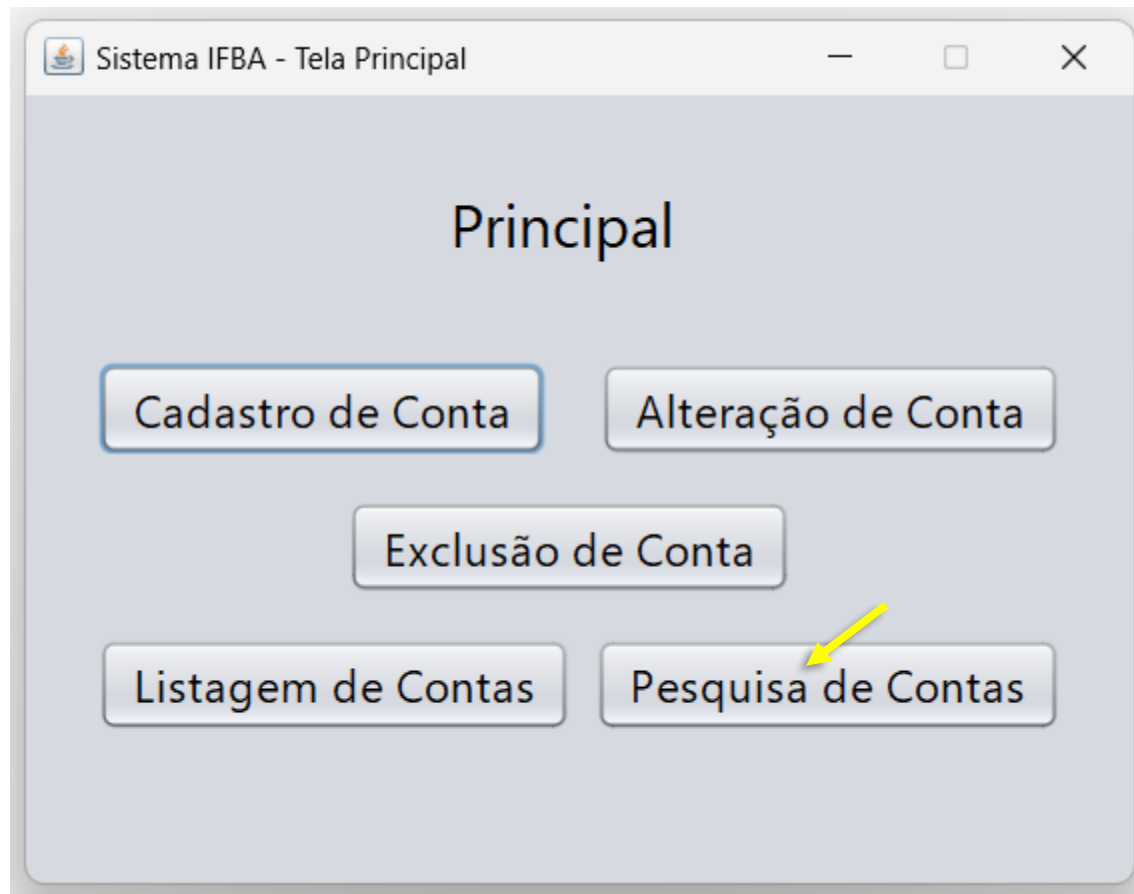
# Java Swing – Exercício – Login e Principal

Execução



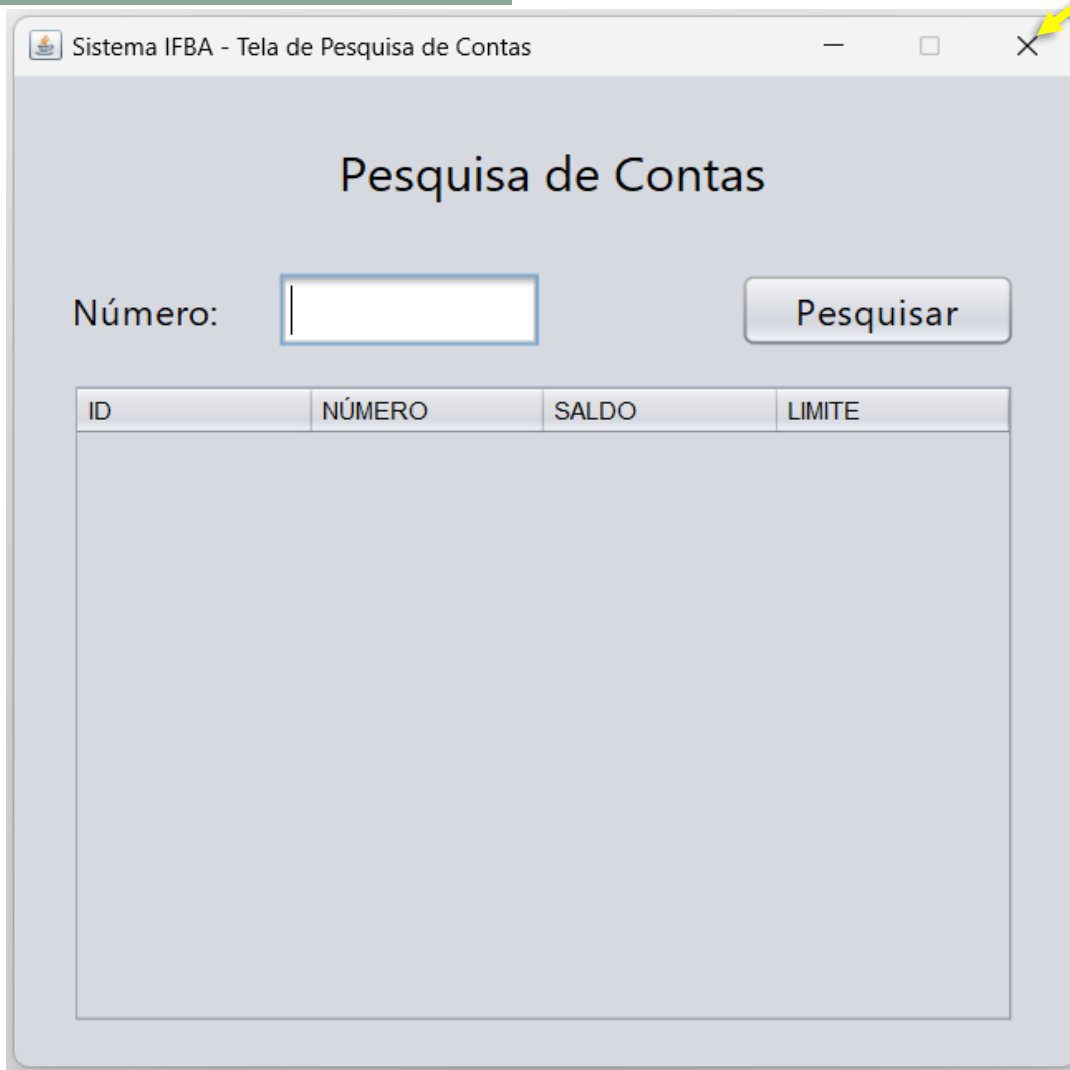
# Java Swing – Exercício – Login e Principal

Execução



# Java Swing – Exercício – Login e Principal

Execução



Sistema IFBA - Tela de Pesquisa de Contas

Pesquisa de Contas

Número:

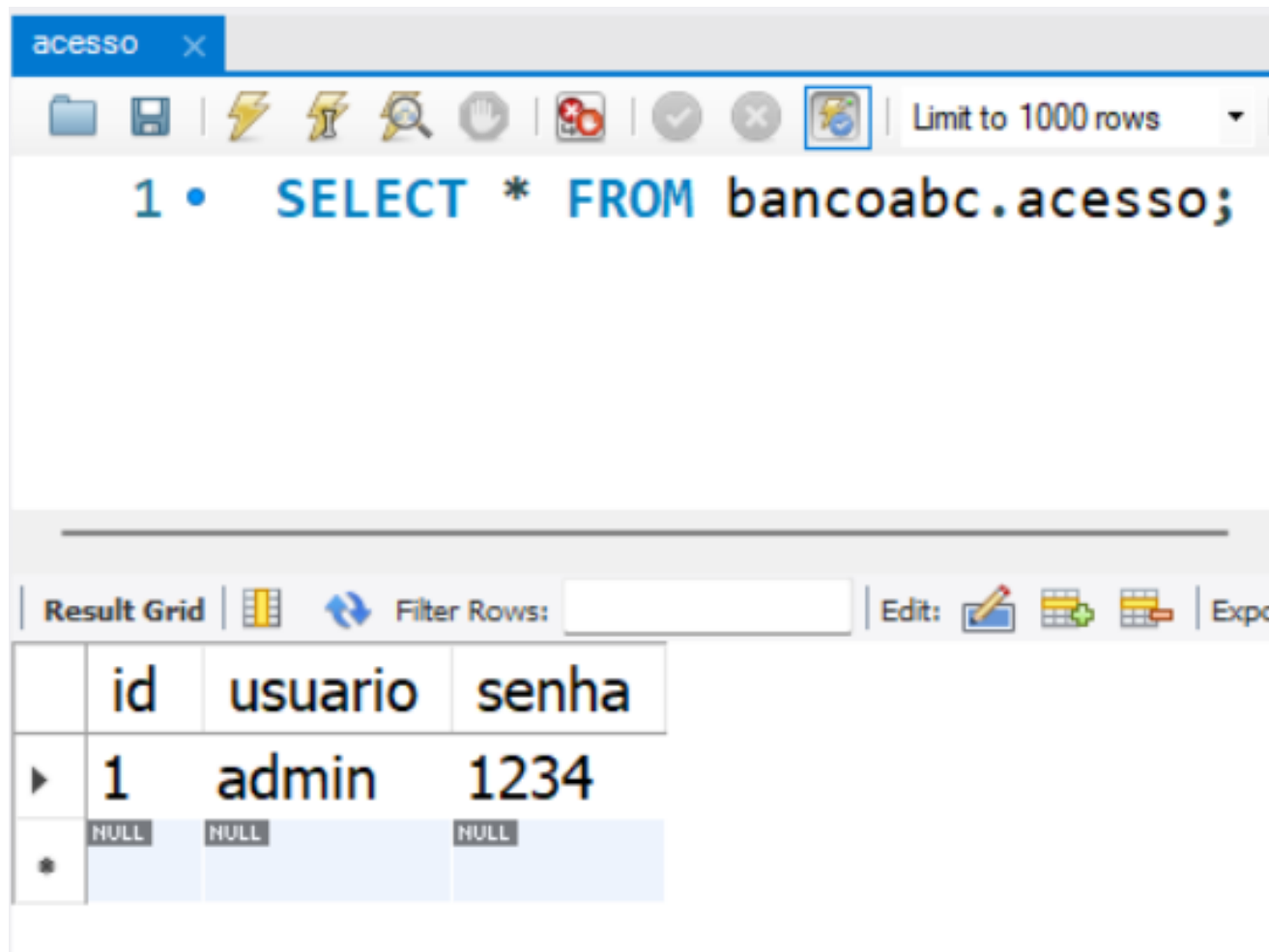
Pesquisar

ID	NÚMERO	SALDO	LIMITE
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# Java Swing – Exercício – Login e Principal

Execução



The screenshot shows a database management interface with a tab labeled 'acesso'. The SQL query editor contains the following query:

```
1 • SELECT * FROM bancoabc.acesso;
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has four columns: 'id', 'usuario', and 'senha'. The first row contains the values '1', 'admin', and '1234'. The second row is highlighted in blue and contains 'NULL', 'NULL', and 'NULL'.

	id	usuario	senha
▶	1	admin	1234
•	NULL	NULL	NULL





# Referências

- Junior, Peter Jandl. Java Guia do Programador - 4ª Edição. Novatec Editora.
- SÉRGIO FURGERI. Java Ensino Didático: Desenvolvimento e Implementação de Aplicações. Editora Érica.
- <https://www.youtube.com/playlist?list=PLwQkYMetu0OYFOU71txhtvSYTVUCHjJYD>
- [https://www.youtube.com/playlist?list=PLWd\\_VnthxxLfeEUK08gB7G3316OS5xIT3](https://www.youtube.com/playlist?list=PLWd_VnthxxLfeEUK08gB7G3316OS5xIT3)



# Obrigado!

- Canais de Comunicação;
- Horário de Atendimento.

