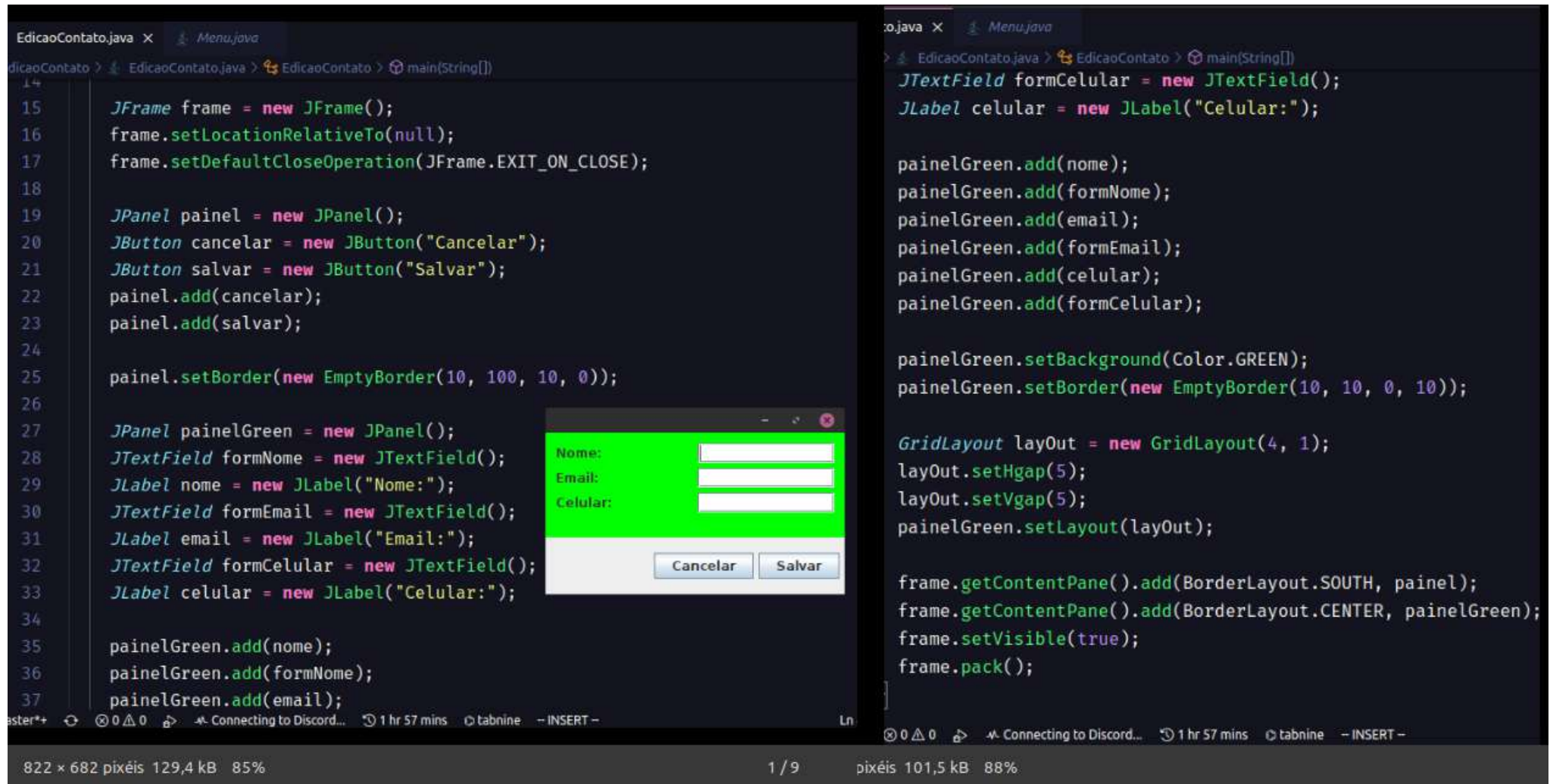


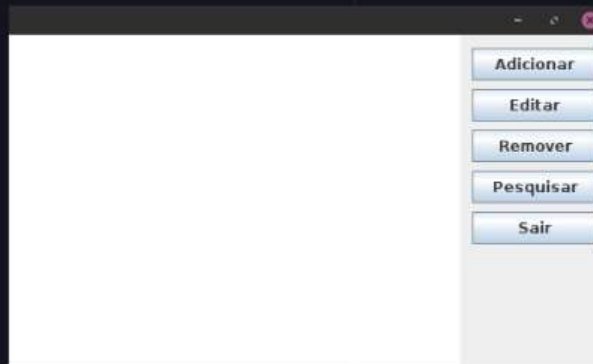
```
MenuJava x
menu > MenuJava > Menu > main(String[])
13 JFrame frame = new JFrame();
14 frame.setIconImage(Toolkit.getDefaultToolkit().getImage(
15 "https://png.pngtree.com/png-clipart/20190924/original/pngtree-menu--icon-in-trendy-style-isolated-b
16 frame.setLocationRelativeTo(null);
17 frame.setSize(450,500);
18 frame.getContentPane().setBackground(Color.GRAY);
19 frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
20
21 JMenuBar navBar = new JMenuBar();
22 JMenu sistema = new JMenu("Sistema");
23 JMenu alunos = new JMenu("Alunos");
24 JMenu livros = new JMenu("Livros");
25 JMenu emprestimos = new JMenu("Empréstimos");
26 JMenu ajuda = new JMenu("Ajuda");
27 navBar.add(sistema);
28 navBar.add(alunos);
29 navBar.add(livros);
30 navBar.add(emprestimos);
31 navBar.add(ajuda);
32
33 JMenuItem sair = new JMenuItem("Sair");
34 JMenuItem novoA = new JMenuItem("Novo");
35 JMenuItem consultaA = new JMenuItem("Consulta");
36 JMenuItem novoL = new JMenuItem("Novo");
37 JMenuItem consultaL = new JMenuItem("Consulta");
38 JMenuItem novoEmprestimo = new JMenuItem("Novo Empréstimo");
39 JMenuItem novaDevolucao = new JMenuItem("Nova Devolução");
40 JMenuItem consultaE = new JMenuItem("Consulta");
41 JMenuItem topicosAjuda = new JMenuItem("Tópicos da ajuda");
42 JMenuItem sobre = new JMenuItem("Sobre");
43 sistema.add(sair);
44 alunos.add(novoA);
45 alunos.add(consultaA);
46 livros.add(novoL);
47 livros.add(consultaL);
48 emprestimos.add(novoEmprestimo);
49 emprestimos.add(novaDevolucao);
50 emprestimos.add(consultaE);
51 ajuda.add(topicosAjuda);
52 ajuda.add(sobre);
53
54 frame.getContentPane().add(BorderLayout.NORTH, navBar);
55 frame.setVisible(true);
```



Contatos.java X

ntatos &gt; Contatos.java &gt; ...

```
9 public class Contatos {  
    Run | Debug  
10 public static void main(String[] args) {  
11     JFrame frame = new JFrame();  
12  
13     frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
14     frame.setLocationRelativeTo(null);  
15     frame.setSize(500,300);  
16  
17     JPanel panel = new JPanel();  
18     JButton adicionar = new JButton("Adicionar");  
19     JButton editar = new JButton("Editar");  
20     JButton remover = new JButton("Remover");  
21     JButton pesquisar = new JButton("Pesquisar");  
22     JButton sair = new JButton("Sair");  
23     panel.add(adicionar);  
24     panel.add(editar);  
25     panel.add(remover);  
26     panel.add(pesquisar);  
27     panel.add(sair);  
28  
29     panel.setLayout(new GridLayout(5, 1));  
30     panel.setBorder(new EmptyBorder(10, 10, 100, 10));
```



Ln 2, Col 1 Tab Size: 2 UTF-8 LF java

Contatos.java &gt; ...

```
JButton pesquisar = new JButton("Pesquisar");  
JButton sair = new JButton("Sair");  
panel.add(adicionar);  
panel.add(editar);  
panel.add(remover);  
panel.add(pesquisar);  
panel.add(sair);  
  
panel.setLayout(new GridLayout(5, 1));  
panel.setBorder(new EmptyBorder(10, 10, 100, 10));  
  
GridLayout layOut = new GridLayout(5, 1);  
layOut.setHgap(7);  
layOut.setVgap(7);  
panel.setLayout(layOut);  
  
JTextArea menu = new JTextArea();  
menu.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
frame.getContentPane().add(BorderLayout.EAST, panel);  
frame.getContentPane().add(BorderLayout.CENTER, menu);  
frame.setVisible(true);  
}
```

Ln 2, Col 1 Tab Size: 2 UTF-8 LF java