

```

1  import java.awt.*;
2
3  import javax.swing.*;
4
5  import java.awt.event.*;
6
7  public class Bai4 extends JFrame {
8      JTextField chieudai;
9      JTextField chieurong;
10     JTextField chuvi;
11     JTextField dientich;
12
13     JButton tinh;
14     JButton thoat;
15     JFrame me;
16     void createGUI()
17     {
18         this.setLayout(new GridBagLayout());
19         this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
20         this.setSize(600, 400);
21
22         GridBagConstraints c=new GridBagConstraints();
23         c.fill=GridBagConstraints.HORIZONTAL;
24         c.gridx=0;
25         c.gridy=0;
26         this.add(new JLabel("Nhập chiều dài: "),c);
27
28         c.gridx=1;
29         c.gridy=0;
30         c.ipadx=150;
31         chieudai=new JTextField();
32         this.add(chieudai,c);
33
34         c.gridx=0;
35         c.gridy=1;
36         c.ipadx=0;
37         this.add(new JLabel("Nhập chiều rộng: "),c);
38
39         c.gridx=1;
40         c.gridy=1;
41         c.ipadx=150;
42         chieurong=new JTextField();
43         this.add(chieurong,c);
44
45         c.gridx=2;
46         c.gridy=1;
47         c.ipadx=0;
48         tinh=new JButton("Tính");
49         this.add(tinh,c);
50
51         c.gridx=0;
52         c.gridy=2;
53         c.gridwidth=3;
54         c.insets = new Insets(10,0,0,0); //top padding
55         this.add(new JSeparator(),c);
56
57         c.gridx=0;
58         c.gridy=3;
59         c.gridwidth=1;
60         c.insets = new Insets(0,0,0,0);
61         this.add(new JLabel("Chu vi: "),c);
62
63         c.gridx=1;
64         c.gridy=3;
65         c.ipadx=150;
66         chuvi=new JTextField();
67         chuvi.setEnabled(false);
68         this.add(chuvi,c);
69
70         c.gridx=0;
71         c.gridy=4;
72         c.ipadx=0;
73         this.add(new JLabel("Diện tích: "),c);

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74
75     c.gridx=1;
76     c.gridy=4;
77     c.ipadx=150;
78     dientich=new JTextField();
79     dientich.setEnabled(false);
80     this.add(dientich,c);
81
82     c.gridx=2;
83     c.gridy=4;
84     c.ipadx=0;
85     thoat=new JButton("Thoát");
86     this.add(thoat,c);
87
88     me=this;
89     //Thêm sự kiện xử lý nút tính và thoát
90
91     tinh.addActionListener(new ActionListener() {
92
93         public void actionPerformed(ActionEvent arg0) {
94             // TODO Auto-generated method stub
95             try{
96                 int cdai = Integer.parseInt(chieudai.getText());
97                 int crong = Integer.parseInt(chieurong.getText());
98                 chuvi.setText(((cdai+crong)*2)+"");
99                 dientich.setText((cdai*crong)+"");
100             }catch(NumberFormatException ex)
101             {
102                 JOptionPane.showMessageDialog(me, "Bạn phải nhập số");
103             }
104         }
105     });
106
107     thoat.addActionListener(new ActionListener() {
108
109         public void actionPerformed(ActionEvent arg0) {
110             // TODO Auto-generated method stub
111             System.exit(0);
112         }
113     });
114
115     this.pack();
116     this.setLocationRelativeTo(null);
117     this.setVisible(true);
118
119 }
120
121 public static void main(String[] args) {
122     new Bai4().createGUI();
123 }
124
125 }
126

```