

```
1:  /*
2:
3:  Jared Dyreson
4:  CWID: 889546529
5:  JDemoKey.java ->
6:  csrc_compile: TRUE
7:
8:  */
9:  import javax.swing.*;
10: import java.awt.*;
11: import java.awt.event.*;
12:
13: public class JDemoKey extends JFrame implements KeyListener{
14:     private JLabel prompt = new JLabel("Type Keys Below");
15:     private JLabel output_label = new JLabel();
16:     private final int FRAME_HEIGHT = 300, FRAME_WIDTH = 300;
17:
18:     private JTextField text_field = new JTextField(10);
19:
20:     public JDemoKey(){
21:         super("Keyboard Keys");
22:
23:         this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
24:         this.setSize(FRAME_HEIGHT, FRAME_WIDTH);
25:         this.setLayout(new BorderLayout());
26:
27:         this.add(prompt, BorderLayout.NORTH);
28:         this.add(text_field, BorderLayout.CENTER);
29:         this.add(output_label, BorderLayout.SOUTH);
30:
31:         addKeyListener(this);
32:         text_field.addKeyListener(this);
33:     }
34:
35:     @Override
36:     public void keyTyped(KeyEvent event){
37:         // only executes when char is typed
38:         char c = event.getKeyChar();
39:         output_label.setText("LAST KEY TYPED: "+c);
40:     }
41:
42:     @Override
43:     public void keyPressed(KeyEvent event){
44:         int key_code = event.getKeyCode();
45:         if(key_code == KeyEvent.VK_UP){
46:             text_field.setText("You pressed the up arrow");
47:         }
48:         else if(key_code == KeyEvent.VK_DOWN){
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49:         text_field.setText("You pressed the down arrow");
50:     }
51:     else if(key_code == KeyEvent.VK_LEFT){
52:         text_field.setText("You pressed the left arrow");
53:     }
54:     else if(key_code == KeyEvent.VK_RIGHT){
55:         text_field.setText("You pressed the right arrow");
56:     }
57:     else if(key_code == KeyEvent.VK_SPACE){
58:         text_field.setText("You pressed the space key");
59:     }
60: }
61:
62: @Override
63: public void keyReleased(KeyEvent event){
64:     return;
65: }
66: public static void main(String[] args){
67:     // Auto generated with caffeine and autovt@.service
68:     JDemoKey j = new JDemoKey();
69:     j.setVisible(true);
70: }
71: }
```