

Untitled-5

```
1  import javax.swing.*;
2  import java.awt.*;
3  import java.awt.event.*;
4  import java.io.*;
5
6  public class SimpleTextEditor {
7      private JFrame frame;
8      private JTextArea textArea;
9      private JFileChooser fileChooser;
10     private File currentFile;
11
12     public static void main(String[] args) {
13         SwingUtilities.invokeLater(SimpleTextEditor::new);
14     }
15
16     public SimpleTextEditor() {
17         frame = new JFrame("Simple Text Editor");
18         textArea = new JTextArea();
19         fileChooser = new JFileChooser();
20         currentFile = null;
21
22         setupUI();
23         setupMenu();
24
25         frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
26         frame.setSize(800, 600);
27         frame.setVisible(true);
28     }
29
30     private void setupUI() {
31         textArea.setFont(new Font("Monospaced", Font.PLAIN, 12));
32         JScrollPane scrollPane = new JScrollPane(textArea);
33         frame.add(scrollPane, BorderLayout.CENTER);
34     }
35
36     private void setupMenu() {
37         JMenuBar menuBar = new JMenuBar();
38         JMenu fileMenu = new JMenu("File");
39
40         JMenuItem newItem = new JMenuItem("New");
41         JMenuItem openItem = new JMenuItem("Open");
42         JMenuItem saveItem = new JMenuItem("Save");
43         JMenuItem exitItem = new JMenuItem("Exit");
44
45         newItem.addActionListener(e -> newFile());
46         openItem.addActionListener(e -> openFile());
47         saveItem.addActionListener(e -> saveFile());
48         exitItem.addActionListener(e -> System.exit(0));
```

```
49
50     fileMenu.add(newItem);
51     fileMenu.add(openItem);
52     fileMenu.add(saveItem);
53     fileMenu.addSeparator();
54     fileMenu.add(exitItem);
55
56     menuBar.add(fileMenu);
57     frame.setJMenuBar(menuBar);
58 }
59
60 private void newFile() {
61     textArea.setText("");
62     currentFile = null;
63 }
64
65 private void openFile() {
66     int result = fileChooser.showOpenDialog(frame);
67     if (result == JFileChooser.APPROVE_OPTION) {
68         currentFile = fileChooser.getSelectedFile();
69         try (BufferedReader reader = new BufferedReader(new FileReader(currentFile))) {
70             textArea.read(reader, null);
71         } catch (IOException ex) {
72             JOptionPane.showMessageDialog(frame, "File not found", "Error",
JOptionPane.ERROR_MESSAGE);
73         }
74     }
75 }
76
77 private void saveFile() {
78     if (currentFile == null) {
79         int result = fileChooser.showSaveDialog(frame);
80         if (result == JFileChooser.APPROVE_OPTION) {
81             currentFile = fileChooser.getSelectedFile();
82         } else {
83             return;
84         }
85     }
86
87     try (BufferedWriter writer = new BufferedWriter(new FileWriter(currentFile))) {
88         textArea.write(writer);
89     } catch (IOException ex) {
90         JOptionPane.showMessageDialog(frame, "Error saving file", "Error",
JOptionPane.ERROR_MESSAGE);
91     }
92 }
93 }
94
```