Labnodpad

```
🛾 FileManager.java 🛭 🚨 notepad.java
 1 import java.io.BufferedReader;
 2 import java.io.File;
 3 import java.io.FileInputStream;
 4 import java.io.FileOutputStream;
 5 import java.io.IOException;
 6 import java.io.InputStreamReader;
 7 import java.io.OutputStreamWriter;
 8 import java.io.PrintWriter;
10 public class FileManager {
11⊖
       public static String fileReader(File file) {
           try(FileInputStream fin = new FileInputStream(file);
12
13
                   InputStreamReader in = new InputStreamReader(fin);
                   BufferedReader bin = new BufferedReader(in))
14
15
           {
               String text="", keep;
16
17
               while((keep=bin.readLine()) != null) {
18
                   text += keep;
19
                   text+="\n";
20
               }
21
               return text;
22
           catch (IOException e) {
24
               System.out.println(e);
25
               return "";
26
            }catch (Exception e) {
27
               System.out.println(e);
               return "";
28
29
30
        public static void fileWriter(File file, String text) {
31⊖
32
           FileOutputStream fout:
33
           OutputStreamWriter oout;
34
           PrintWriter p:
35
                fout = new FileOutputStream(file);
37
               oout = new OutputStreamWriter(fout);
38
               p = new PrintWriter(oout);
39
               for(int i=0;i<text.length();i++) {</pre>
40
                   if(text.charAt(i) =='\n')
41
                       p.println();
42
43
                       p.print(text.charAt(i));
 44
  45
                         p.close();
  46
                         oout.close();
  47
                         fout.close();
  48
  49
                   }catch (Exception e) {
                         System.out.println(e);
  50
  51
                   }
  52
             }
  53 }
```

```
🗓 notepad.java 🛭
 1⊕ import java.awt.event.ActionEvent;
 2 import java.awt.event.ActionListener;
 3 import java.io.File;
 4 import javax.swing.JFileChooser;
 5 import javax.swing.JFrame;
 6 import javax.swing.JMenu;
 7 import javax.swing.JMenuBar;
 8 import javax.swing.JMenuItem;
 9 import javax.swing.JScrollPane;
10 import javax.swing.JTextArea;
11
12 public class notepad implements ActionListener{
13
        private JFrame fr;
14
        private JMenuBar menubar;
15
        private JMenuItem s1, s2 ,s3,s4,s5;
16
        private JMenu menu1, menu2;
17
        private JTextArea ta;
18
        private JFileChooser fileChooser;
19
        private Instruction instruction;
20
        private File file;
21
229
        public void init() {
23
            instruction = new Instruction();
24
            fr = new JFrame("Notepad");
25
            fr.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
26
            menubar = new JMenuBar();
27
28
            fileChooser = new JFileChooser(new File("C:\\Users\\itkmitl\\eclipse-workspace\\Notepad"));
29
30
            menu1 = new JMenu(instruction.getMenubarInstruct(1)); // File
31
            menu2 = new JMenu(instruction.getMenubarInstruct(2));//Edit
32
33
            s1 = new JMenuItem(instruction.getFileInstruction(1));//new
34
            s2 =new JMenuItem(instruction.getFileInstruction(2));//open
35
            s3 = new JMenuItem(instruction.getFileInstruction(3));//save
36
            s4 = new JMenuItem(instruction.getFileInstruction(4));//save as
37
            s5 = new JMenuItem(instruction.getFileInstruction(5));//exit
38
            menu1.add(s1);
39
            menu1.add(s2);
40
            menu1.add(s3);
41
            menu1.add(s4);
42
            menu1.addSeparator();
43
            menu1.add(s5);
```

```
🗾 notepad.java 🛭
  44
              s2.addActionListener(this);
  45
              s3.addActionListener(this);
              s4.addActionListener(this);
  46
                                                                                3
  47
              s5.addActionListener(this);
  48
                                                                                4
  49
                                                                                5
  50
              fr.setJMenuBar(menubar);
                                                                                6
  51
             menubar.add(menu1);
                                                                                7
             menubar.add(menu2);
   52
                                                                                8
  53
   54
              ta = new JTextArea();
                                                                                9
  55
             JScrollPane jScrollPane = new JScrollPane(ta);
                                                                               10
  56
              fr.setVisible(true);
                                                                               11
  57
              fr.setSize(300, 200);
                                                                               12
  58
              fr.add(jScrollPane);
  59
                                                                               13⊝
  60
                                                                               14
  619
          public static void main(String[] args) {
                                                                               15
  62
              notepad obj = new notepad();
                                                                               16
  63
             obj.init();
                                                                               17
  64
  65⊜
          @Override
                                                                               18
  466
          public void actionPerformed(ActionEvent arg0) {
                                                                               19
  67
             String cmd = arg0.getActionCommand();
                                                                               20
  68
                                                                              21 }
             if(cmd.equals(instruction.getFileInstruction(5))) {
  69
  70
                 System.exit(0);
   71
  72
              //open
   73
              else if(cmd.equals(instruction.getFileInstruction(2))) {
  74
                  int returnVal = fileChooser. showOpenDialog(null);
   75
                  if (returnVal == JFileChooser.APPROVE_OPTION) {
                         file = fileChooser.getSelectedFile();
  76
  77
                         ta.setText(FileManager.fileReader(file));
  78
                      }
  79
  80
              //save
  81
              else if(cmd.equals(instruction.getFileInstruction(3))) {
  82
                 FileManager.fileWriter(file, ta.getText());
  83
  84
  85
              //save as
             else if(cmd.equals(instruction.getFileInstruction(4))) {
  86
              else 1+(cma.equals(instruction.getFileInstruction(4))) {
50
37
                    int returnVal = fileChooser. showSaveDialog(null);
                        if (returnVal == JFileChooser.APPROVE_OPTION) {
38
39
                             file = fileChooser.getSelectedFile();
90
                             FileManager.fileWriter(file, ta.getText());
91
                        }
92
93
         }
94 }
95
```

```
🛮 Instruction.java 🛭 🗓 notepad.java
☑ FileManager.java
    public class Instruction {
        public String getFileInstruction(int i) {
            String instruct ="";
            switch(i) {
            case 1: instruct = "New";break;
            case 2: instruct = "Open";break;
            case 3: instruct = "Save";break;
            case 4: instruct = "Save as";break;
            case 5: instruct = "Exit";break;
            }
            return (instruct);
        public String getMenubarInstruct(int i) {
            String instruct ="";
            switch(i) {
            case 1: instruct = "File";break;
            case 2: instruct = "Edit";break;
            }
            return (instruct);
```