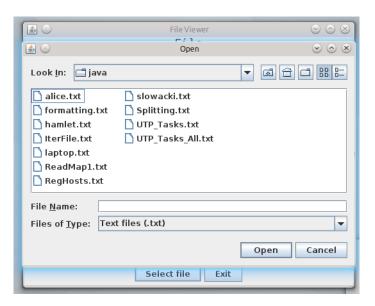
Problem 1 _

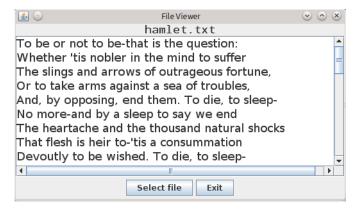
Write a program which displays a GUI with

- a text area with the content of a text file;
- a panel with two buttons: pressing one of them closes the application, pressing the other displays a dialog of type JFileChooser allowing the user to select a file only files with extension *txt* should appear;
- a label with the name of the file currently shown in the text area.

Selecting a file will look like this:



and after a file has been selected, we should see its content:



Note: You can force the text area to scroll to the bottom after a call to append like this:

textArea.setCaretPosition(textArea.getDocument().getLength());

Problem 2

Write a program displaying a list (object of class JList 'embedded' in a JScrollPane) and, below, a text field (JTextField).



The user can type in the text field:

1. **add** word: the word appears in the list, if it was not there; if it was, a warning is displayed and the word is not added again;



- 2. **del** word: the word is removed from the list if it was there, if it was not, a warning is displayed;
- 3. quit: closes the application.

Use your own class extending AbstractListModel and implementing abstract methods getElementAt and getSize; provide methods for adding and removing elements (not forgetting about calling fireIntervalAdded and fireIntervalRemoved).