

PROJECT: 4 NAME: \_\_\_\_\_  
 DUE DATE: Friday May 10, 2024  
 April 29, Menu System is due (15 points)

**Description:**

Implement a version of the Windows Notepad application as *Notepad*. Your project must implement everything in bold.

<b>File</b>		
<b>New</b>	<b>Ctrl+N</b>	
<b>Open...</b>	<b>Ctrl+O</b>	<i>must use JFileChooser, provide filers .txt and .java files</i>
<b>Save</b>	<b>Ctrl+S</b>	
<b>Save As...</b>		<i>must use JFileChooser</i>
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<i>Page Setup...</i>		
<i>Print...</i>	<i>Ctrl+P</i>	
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<b>Exit</b>		<i>must confirm exit if content changes</i>
<b>Edit</b>		
<i>Undo</i>		
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<b>Cut</b>	<b>Ctrl+X</b>	
<b>Copy</b>	<b>Ctrl+C</b>	
<b>Paste</b>	<b>Ctrl+V</b>	
<b>Delete</b>	<b>Del</b>	
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<b>Find...</b>	<b>Ctrl+F</b>	<i>must use modeless dialog</i>
<i>Find Next</i>		
<i>Replace...</i>	<i>Ctrl+H</i>	
<b>Go To...</b>	<b>Ctrl+G</b>	
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<b>Select All</b>	<b>Ctrl+A</b>	
<b>Time/Date</b>	<b>F5</b>	<i>format: 12:42 PM 12/04/2018</i>
<b>Format</b>		
<b>Word Wrap</b>		<i>availability depends on the Status Bar option in Format</i>
<b>Font...</b>		<i>use the <b>improved</b> version of showFontDialog developed in hw2</i>
<b>Color</b>		<i>this feature does not exist in Windows Notepad</i>
<b>Background...</b>		<i>set color for the text area, must use JColorChooser for both</i>
<b>Foreground...</b>		
<b>View</b>		
<i>Status Bar</i>		
<b>Help</b>		
<i>View Help</i>		
<i>Extra Credits...</i>		<i>show only if any extra features implemented, with a dialog</i>
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<b>About Notepad</b>		<i>use the standard about dialog</i>
 <b>Popup menu for Cut, Copy, and Paste</b>		

- ☐ r1
- ☐ r2

1. The defaults: frame size 800x600, centered, font Courier Normal 12 points, *with* Notepad.png for the application icon.
2. Notepad can be executed with a file in the command line. For example:  
`java Notepad myfile.txt`  
If myfile.txt exists, it will open and load the file, else it is a new file.
3. You can use an IDE (NetBeans or Eclipse) to generate any GUI that your project requires.
4. Up to 15 extra credits to be added to your homework/quizzes points for implementations of extra features. For example, only non-proportional fonts can be selected, ... If you are to implement any of the extra credit features, you must provide the Extra Credits menu item under Help. A simple list of the extra features is to be listed here.

### **Turn in**

1. **Print out and turn in page 1 of this project description with your name.**
2. This project will consist of two or more sources:  
**Notepad.java Dialogs.java, and any other java sources.**
3. Zip the sources and submit the zip on Canvas with the name: **p4.zip**  
NO folder inside the zip file. I will do the following to grade your homework:  
`unzip p4`  
`javac Notepad.java`  
`java Notepad`

### **Notes:**

The following information is required in the beginning of every source file.

```
//  
//  Name:      Last, First  
//  Project:   #  
//  Due:      date  
//  Course:   CS-2450-01-sp24  
//  
//  Description:  
//           A brief description of the project.  
//
```