

Rochester Institute of Technology National Technical Institute for the Deaf Information and Computing Studies Department

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	NACA.161 Programming Fundamentals II In Class Exercise #31 – Introduction to GUI
0	verview
Th	is exercise is designed to let you practice creating a GUI program.
1)	Create a class called MyGUI that contains a main method.
2)	Create a JFrame object with the default constructor. Compile and run.
	What package did you include?
	Did a GUI window appear?
	There is mothing to look at set-visible is not enabled.
3)	Fix the code by making the frame visible. What method did you use? jf. set Visible (true);
	Did a window appear? <u>Yes</u>
	What did it look like?
	A tiny unrecognizable window at top Left of succe
4)	Since there wasn't any text in the titlebar, modify your code to display the words "My First GUI" in the titlebar.
	How did you add the title? (You may also need to maximize the window to see the

title.)

5) Now create a button with the label MyButton.

What class did you use to create the button?



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- 6) Add the button to the frame. Make sure your code compiles before continuing.
- 7) Run the code. Can you see the button? No Why not?

I didn't add it to the GUI.

8) Fix the problem by making the size of the frame to be 500x200 pixels. Write the statement to do this.

jf. Set Size (500, 200);

9) Can you see the button text? 4es

Why not? (You may still be able to see the button text.)

- 10) Fix the problem by moving the setVisible method to the end of your code, compile and run. You should now see the button, if not, keep trying until you do. (setVisible should be the last thing to be done for a jFrame object)
- 11) Now add another button to the frame, compile and run the program.

Why didn't both buttons appear?

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12) Fix the problem, compile, and run the program to make sure both buttons appear on the screen.

What method did you add? If set Lyout (new Flouring);

3) The last remaining problem is that when you click on the 'X' in your GUI program, it doesn't really exit. Add code that will make your program actually exit when you tell it to.
Write the statement to do this.
if set Default Close Operation (JFme. EXIT_OW_CLOSE); Run your program until it works correctly.
NOTE: Below is optional and not covered by today's powerpoint.
14) Make a copy of your program and call it MyGUI2.
What is the line to make MyGUI2 a sub-class of the JFrame class?
15) Create the main method so that it creates an object of class MyGUI2 and sets the properties of the frame.
16) Create the constructor for the class MyGUI2 that will create the window that you see on the screen. Correct your code until the program displays exactly the same as the previous version with all code in the main.
<u>Signoff</u>
When you complete all of the steps successfully and answer all of the questions, contact your instructor to check if your application(s) executes correctly and to review your code. We will initial the line below.
Successful execution of code
If you do not finish the program during the class period, contact your instructor to check to review your code and initial below.
Code not completed during lab time
You may then submit your work at the <u>start of next class</u> . You may not use the work period of the next class to complete this assignment. If you do not have a signature, then you cannot receive any points for this assignment.