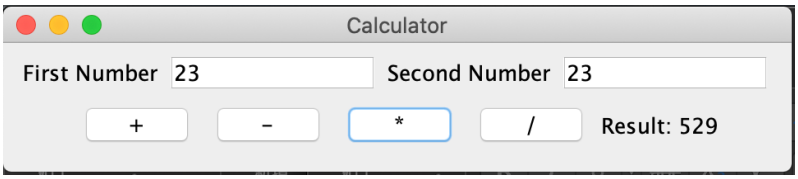
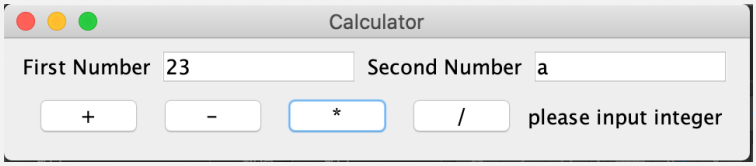
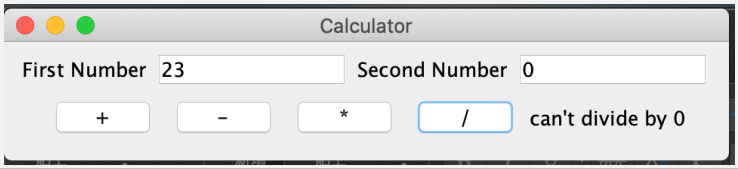
Lab 18

Create a new Eclipse project named **YourStudentId_Lab18** and create a class “Calculator”. (Only one class is needed)
Please follow the instructions to create a calculator and it should look like this:



Calculator **Extends from JFrame**	
Modifier and type	**Method (or Variable) and description**
Constant variable	
int	FRAME_WIDTH The width of the frame. 400
int	FRAME_HEIGHT The height of the frame. 100
int	FIELD_WIDTH The width of the TextField. 10
Instance variable	
JLabel	firstNumLabel, secondNumLabel, resultLabel
JTextField	firstNumField, secondNumField
Constructor and Description	
Calculator() Constructs a Calculator. Set the frame size by constant variables, FRAME_WIDTH and FREAME_HEIGHT. And then call all help methods to create a GUI.	
JButton	**createOperatorButton(…)** Instantiates a button for the operation, and once the button is clicked it can perform these jobs: 1. Get the value of two text field. 2. Pass the two number and the operator to the method “doCalculate”. 3. Update JLabel “result” to show the result. Exception handling: 1. If any value of textfield can’t parse to integer, show as following:  2. If there is any number divided by zero, show as following: 
int	**doCalculate(int num1, int num2, String operator) throws …** 1. Do the arithmetic and return the result.

```
//main method
public static void main(String[] args) {
	// TODO Auto-generated method stub
	JFrame frame = new Calculator();
	frame.setTitle("GUICalculator");
	frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
	frame.setVisible(true);
}
```

Submission: Submit your project as "zip (or rar) file" via WM5. No other submissions will be graded.

Reminder: Please zip the whole project.

Deadline: Tomorrow's midnight (for both Mon56 and Tue23)