

PGCert IT: Programming for Industry

Lab 13: SwingWorker

Before you start

The BitBucket repository for this lab is located at this link. Fork it to get the starting point for this lab. Take a look at the examples given in the project, as they should help you to complete the exercises.

Exercise One: SwingWorker errors

For this exercise, examine the following code excerpt:

```
public class AwesomeProgram implements ActionListener {
      private JLabel progressLabel = ...;
      private JLabel myLabel = ...;
      private JButton myButton = ...;
      /** Called when the button is clicked. */
      @Override
      public void actionPerformed(ActionEvent e) {
             myButton.setEnabled(false);
             // Start the SwingWorker running
             MySwingWorker worker = new MySwingWorker();
             worker.doInBackground();
             // When the SwingWorker has finished, display the result in myLabel.
             int result = worker.get();
             myButton.setEnabled(true);
             myLabel.setText("Result: " + result);
      }
      private class MySwingWorker extends SwingWorker<int, Void> {
             protected int doInBackground() throws Exception {
                    int result = 0;
                    for (int i = 0; i < 100; i++) {</pre>
                           // Do some long-running stuff
                           result += doStuffAndThings();
                           // Report intermediate results
                           progressLabel.setText("Progress: " + i + "%");
                    }
                    return result;
             }
      }
}
```

There are **four errors** with the given code. For each error, state in detail what the error is, and what you would do to fix it.

Note: Assume that the Swing components have been created successfully, are displayed on the GUI correctly, that doStuffAndThings is a method that exists and performs some long-running task which returns an **int**, and that the actionPerformed method is called when the user clicks myButton.

Error one:	
Error two:	
Error three:	
Error three: Error four:	