

FIT2081

Laboratory for Week 07

Relates to slide Set Week 6

This Lab is one of 11 you will attend during the semester. Each lab is worth 2 of your final marks for the unit. Marks on this lab sheet will be scaled accordingly. The best 10 marks will be used.

In the last 30 minutes of the each lab your tutor will mark you. You will be asked a few questions to determine whether you **confidently** understand the work you are presenting. You will be awarded a mark of 0 if **any** trace of plagiarism is detected during this questioning. You may prepare your solution before the lab in which case you can ask to be marked at the earliest opportunity.

Purpose:

- Check your understanding of listener-related syntax

Important

- Each question should be answered in its own class in its own project or within a common project. Please note the compiler compiles all classes in a project at once (this can be changed but not recommended for beginners)

Download from Moodle the zip file “Week 6 Code”. Unzip it. It’s an IntelliJ project containing the code you will need to complete this week’s laboratory.

Q1 – (2 marks total)

Analyse the MenuDemo class in the menuDemo package.

Break it into a driver class and a JFrame class (**0.5 mark**).

Add an inner listener class called InnerMenuListener and migrate the actionPerformed(...) method into it. Fix any compile errors this causes.

When fixing the `redChoice.addActionListener(this);` statement use a named listener class and named listener object. (**0.5 mark**).

When fixing the `whiteChoice.addActionListener(this);` statement use a named listener class and anonymous listener object. (**0.5 mark**).

When fixing the `blueChoice.addActionListener(this);` statement use an anonymous listener class and anonymous listener object. (**0.5 mark**). Yes I know this involves code duplication! Don’t eliminate the duplication.

Make sure the applications still runs as intended.