

**GRIFFITH COLLEGE DUBLIN****COMPUTING ASSIGNMENT TITLE SHEET**

<b>Course:</b>	HDC
<b>Stage/Year:</b>	1
<b>Module:</b>	HCI & GUI
<b>Semester:</b>	[Semester I]
<b>Assignment Number:</b>	1
<b>Date of Title Issue:</b>	Thursday 18 <sup>th</sup> . October 2018
<b>Assignment Deadline:</b>	Sunday 18 <sup>th</sup> . November 2018
<b>Assignment Submission:</b>	Upload using Moodle link provided on HCI-GUI page
<b>Assignment Weighting:</b>	25/50

**Assignment Title**

**Please state the assignment title / brief. Please specify details such as:**

Email client partial implementation as described on pages 2-4 of this document.

**Learning Outcomes**

**Please state the programme and related module learning outcomes that this assignment is assessing.**

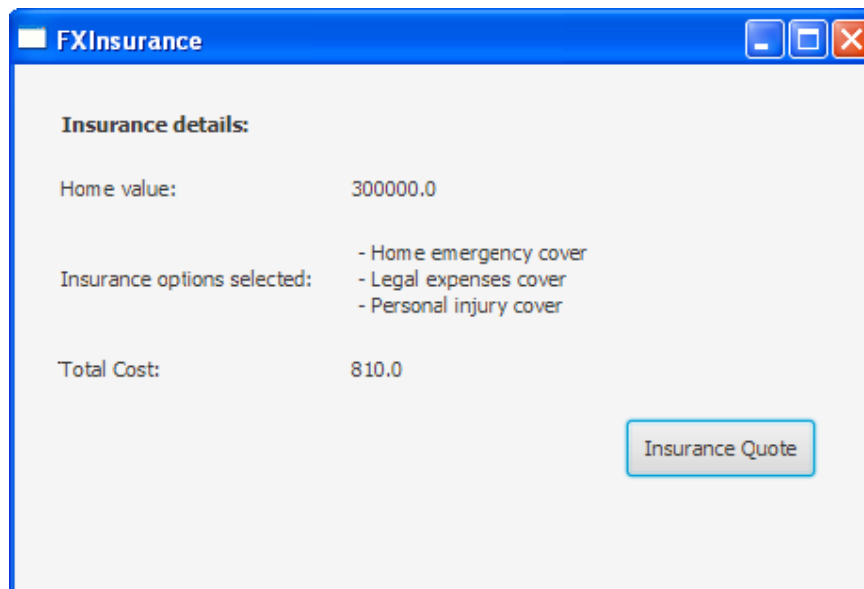
1,2,4,5,6

**Assessment Criteria****Criteria Include:**

Application correctness. Originality of solution. Presentation, including adherence to the required file formats. Commenting and layout of code. Adherence to accepted GUI standards. Correct treatment of sources and general academic approach.

## Assignment 1

### FXInsurance



**Figure 1.0: FXInsurance application interface**

FXInsurance (Figure 1.0) is an application to support the calculation of home insurance premiums. It consists of a main application interface as shown in Figure 1.0 and a dialog. The dialog has a textfield for the value of the home to be insured. Three additional checkboxes allow further cover options to be selected. On dialog confirmation, information entered by the user, is used to calculate an insurance premium. The insurance details are shown on the main application interface.

(a) Create the main application interface as shown in Figure 1.0. Set the style of the upper label (insurance details) so that it displays a bold font.

**(5 marks)**

(b) Create a dialog that allows the user to input a home value, eg. 300000. Three types of optional extra insurance cover are available. These are: Home emergency; Legal expenses; Personal injury. Support user selection of these extra cover options in the dialog. Add dialog buttons. The dialog should appear on clicking the 'Insurance Quote' button on the main application interface.

**(10 marks)**

(c) A basic insurance premium costs 0.002 of the entered home value. Further costs for optional types of cover are added to the basic premium. The additional cost of the other optional types of cover is shown in Table 1.

Type of Optional Cover	Additional Cost
Home emergency cover	15% of basic premium
Legal expenses	10% of basic premium
Personal injury	10% of basic premium

**Table 1. Optional insurance cover and costs**

On dialog confirmation, show the home value entered, the selected optional cover, if any, and the total cost of cover, on the main application interface (Figure 3.0). You

are not required to apply currency formatting or use any currency symbols.  
Remember to handle dialog cancellation.

**(10 marks)**

**Total (25 marks)**

### **Assignment Weighting:**

This is the first of two assignments in this module. This assignment has a weighting of 25 marks out of a total of 50 marks for both assignments.

### **Deliverables:**

- 1 signed and dated assignment submission sheet. Save the assignment submission sheet as a .pdf file and include it in the zipped archive with the project.
- You are required to manually code the user interfaces for this project as shown in class. Do not use Scene Builder or other graphical tools. You are required to deliver 1 zipped archive file containing the completed project created with Java FX, to be uploaded using the Moodle link provided for Assignment 1. Please note that only .zip files are acceptable. Any other format can not be opened/corrected and will result in a mark of 0. Please be warned that files created in any other format, or using tools or tool versions other than those stipulated can not and will not be corrected. As an aspiring computer professional, you will understand that multiple versions of software can not be supported in a task such as this. This is non negotiable. If you supply a file that can not be corrected you will receive a mark of 0.

### **File Name**

The zipped archive should be named with your student number and name eg:

123456\_johnsmith\_assign1.zip

### **Due Date**

Upload the assignment before Sunday 18<sup>th</sup>. November 2018 11:55pm.

### **Keep a Backup Copy**

Ensure that all necessary components are present in the zipped archive. The assignment is submitted electronically. It is extremely important that you keep a backup copy. As a student of Computer Science, you can not easily defend the position that you did not understand the necessity to keep a backup copy.

### **Sources**

In line with good academic practice, you must carefully acknowledge all sources including any material sourced from other students. Unreferenced material pasted from websites or where the source is unclear, is of little academic value. As a rough guide, if you include material that takes an alternative approach to that taught in lectures/labs, you must show in your comments that you understand the alternative approach thoroughly. Further, you must fully reference the source(s) of such work so that examiners may assess the value of your contribution. You may be required to explain/present your code in class as part of the work. For that reason it is important that you understand what you present.