

## Instructions

1. Create this program using jGrasp based on the code covered in the course.
2. Your program should have your name and student number in the comments at the top.
3. Comment your program fully.
4. Test your program fully. Include Error Checking and Exception Handling where possible.
5. Assignment is to be submitted by midnight on Monday 3<sup>rd</sup> May 2021. Weighting is 30%
6. If you source code that has not been covered in the course, please include the source as a comment in your code.
7. Reminder as per LYIT Quality manual. The total marks available for an assessment is reduced by 15% for work submitted up to one week late. The total marks available are reduced by 30% for work up to two weeks late. Assessment work received more than two weeks late will receive a mark of zero.

Using the **Property** class, you developed for Assignment 2 in the Software Development module, create a GUI for the class similar to the GUI on the next page. This is only an example; you are free to design the GUI as you wish.

(A version of the Property class is also available on Blackboard)

LVIT Estate Agents

\*\*\* Enter Property Details \*\*\*

Street  Town  County

Beds  Receptions  Baths  Type  Price

Add Property

\*\*\* Property Search \*\*\*

View All Properties Search by Type Search by No Bedrooms Search by Price Range

\*\*\* Create your own Functions \*\*\*

Function 1 Function 2 Function 3

## Design of Window – 25%

- You are free to design the Window as you wish but it must include all Labels, TextFields, Buttons, TextArea as shown

## Functionality to include error checking and exception handling – 45%

- Your Window must provide functionality to:
  - Add Property – Details must be entered in all TextFields for the property. No TextField should be left empty.
  - View All Properties – All properties added to your ArrayList should be displayed.

## Assignment 1

- Search by Type – A user should be able to enter a type of property(detached, semi-detached, bungalow, flat etc) and corresponding matches to that type of property should be displayed.
- Search by No Bedrooms – A user should be able to enter a value for the number of bedrooms and properties matching that number of bedrooms should be displayed.
- Search by Price Range – Allow a user to enter their maximum price range and display all properties within that price range.

### **Design your own 3 functions – 30%**

- Using existing methods in the Property class or by adding new methods design 3 functions of your own. Higher marks will be awarded for the uniqueness of your functions, i.e., try not to have 3 functions that do the same e.g., 3 more search functions. You can add whatever additional GUI controls that are needed to make your functions work.