**Programming** **Lab Exercise 4**

Before you start:

Create a folder called **lab4** inside your personal **java** folder you created at the start. Save all your work for lab4 in this folder. Your program should be called **MyHR.java**

**Purpose:**

Tests your understanding of the concept of classes and aggregation in Java.

**Problem:**

You have been asked to create a rudimentary HR system called **MyHr** to help administer the growing number of employees in the company. The system will manage the employees’ details and office number allocation.

The system should offer the user the following options:

1. List all offices
2. Create a new employee record
3. List all employees

**Some specifics:**

* The system will initialise 3 office records automatically. They should have room numbers starting at 100 (allocated from a static class variable).
* The user can create up to a maximum of 5 employee records.
* Each employee should have an automatically assigned employee number, starting at employee number 1000
* They should have an address consisting of
  + Street
  + City/town
  + County
* They should have an employee type of either “Staff” or “Manager”
* If they are a “Manager” then they should have some details about their company car
* They must be assigned to an existing Office (maximum 2 people in an office)

**Implementation**:

You are expected to use classes and aggregation.

You should have the following classes (include whatever class variables you feel appropriate):

* Employee
  + (it should also contain a method to return the number of employee records)
* Address
* Office
  + (it should also contain a method to return the number of employees assigned to it)
  + (it should also contain a method to return the record of each employee assigned to the office)

Each class should implement a toString() method for printing.