**Week 6 exercise: Encapsulation & String**

1. Create an Employee class and define the appropriate properties, methods and access modifiers for the class so that it meets the following requirements
   1. Each Employee has an ID that is assigned to them when the employee is first created. This ID cannot be modified.
   2. Each employee has a salary and a salary grade. There are 3 salary grades: “Lecturer”, “Administrator” and “Manager”. If the salary grade is “Lecturer”, the salary should be between 30000 and 50000. If the salary is “Administrator”, the salary should be between 10000 and 29000. If the salary is “Manager”, the salary should be between 40000 and 90000. By default, an employee salary is 10000 and the salary grade is “Administrator.”
   3. An employee’s salary can be modified at a later time but the salary grade should be decided based on salary
   4. Each Employee must have a Last Name and a First Name. If the employee does not have a Last Name or a First Name, you need to set it to “N/A”
   5. An Employee’s first or last name must contain at least 3 characters. If it does not meet this requirement, then display an appropriate error message instead.

Each Employee may have an Email address. If they provide an email address, you must check that the email address contains only 1 @ symbol, and ends with either “.com” or “.co.nz”. If it does not meet this requirement, please display an appropriate error message instead.

* 1. Everyone should be able to get an Employee’s ID, Last Name, First Name and E-mail. For each of these properties, ensure that there is no extra blank space in the beginning and the end of the text.
  2. Overrides the toString method so that it will display an Employee in the following format if we want to print an Employee, e.g. “132 – John White”, “1455 – Belle N/A”