**In Class Exercise**

Exercise 1

Create an outer class called Employee with member variables for id, name, gender and salary.

Create a suitable constructor.

Create a suitable print method

Create a class Address which is an inner class of the Employee class with member variables for house number, city, post code and country

Create a suitable print method which also calls the print method of the outer class

In the test class create an Employee object followed by an object of type Inner class Address. Call on the print method in the Address class.

**Sample Output:**

ID:1000 Name:Joe Smith Sex:M Salary:3200.0

Address:

House No:30 Wynham Estate

City:Dublin

Post code:24

Country:Ireland

Exercise 2

Create an outer class called Outside with an inner class called Inside.

Outside has an integer x and a constructor which allows the value for x to be passed as a parameter.

Inside has an integer y and a constructor which allows the value for y to be passed as a parameter. Inside has a method add() which adds x and y and prints the result.

Outside has a method multiply() which multiplies x and y and prints the result – here we get a syntax error.

Create a main method which creates instances of Outside and calls the multiply method.

Exercise 3

What is the difference between the following inner class definitions:

class Inner { }

Public class Inner {}

Private class Inner {}