# Work Log:

**Name and ID:** Mark Glenn

**Class:** Cloud & Green IT

**Date:** 13/ 11/2015

**State of your assignment as it stands:**

In week one a Person class, Employee class, Manager Class, two employee tester classes and a manager tester class were created.

**Estimation of time spent on the assignment (during the current week):**

5 hrs

**Work carried out:**

A basic abstract Person class was created which contained instance variables name and age, constructors and get methods for them and a getDescription method which printed the instance variables to screen.

An Employee class was then created which extended the Person class meaning inheritance was used and a Comparable Employee was implemented. Two private instance variables, employee ID and salary were created and a private static variable ID generator was created to generate a unique ID for each employee starting at 1. Constructors and get methods were created and a getDescription method to print employee details to screen including salaries.

An equals method was created determining if employee, name, age and ID were equal and a compareTo method was created comparing employees by salary only. Two simple employee tester classes were then created to test the various methods.

A manager’s class was then created which inherited the person and employee classes and implemented comparable Employee. A new instance variable of bonus was created and added to the constructor and the getSalary method was overridden which added a bonus to the salary for the manager. The bonus was then added to the getDescription method.

A manager tester class was then created to test the various methods.

**Main Difficulties encountered (plus solutions, if any):**

There were no difficulties encountered in creating these three classes and testers as they were similar to what was learned in Practical 8.

**Provide detail of any help/guidance that you received from your lecturers:**

Guidance was needed on generating Javadoc comments from lecturer John Conaghan.