1.   Modify the `Employee` class from earlier so that each instance will have a unique employee ID. Use a `static` variable to achieve this.

2.   Add a static variable `bonusRate` to the `Employee` class. This variable will hold the percentage bonus payable to all employees. Add a `setBonusRate()` **static method** to the `Employee` class.

3.   Write an overloaded method `calcBonus()` for the class that takes no arguments and uses the `static` variable `bonusRate` to calculate the bonus. (ie. if no bonus rate is supplied in the method call, the value of `bonusRate` is used to calculate the bonus)

4.   Add a new instance variable to the `Employee` class called `startDate`. Make any necessary changes to your class and test your class.

5.   Write a Tester program that creates an array of 10 `Employee`s. Write code that will print a list of all `Employee`s employed after a certain year.

6.   Add code to your Tester program so that all `Employee`s employed before 2015 get their salary raised by 3%, and all `Employee`s employed during or after 2015 get their salary raised by 1.5%.

7.   Add code to the Tester class so that it will print out the total salary for all `Employee`s in the array (all salaries added together).

8.   Add code to the Tester class so that the user will enter an employee number. The program will print out full details of the `Employee` who has that employee number.