**Java**

Object Oriented Development

Log4J Exercise

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| Version | Date | Author | Comments |
| 1.0 | 24/ 11 / 20 | Adrian O'Brien | First draft |
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## Exercises

1. In this exercise write a method called returnTaxableRate which takes a String as an argument. This String will contain a number representing the salary of an employee. This String will have been entered by a user.

public double returnTaxableRate(String salaryString){

}

In some cases this value will have been entered correctly but in others an invalid number will have been entered. This value may be negative, too large or even an amount of zero.

In this exercise, we will record a message to the log depending on the types of values entered. Depending on the validity of the value, write a message to the log file with the appropriate severity level. The salary amount passed into the method should be written to the log.

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| --- | --- |
| Salary amount | Message recorded using Log4J |
| salary if undefined  (String does not contain a number) | FATAL |
| salary is negative | ERROR |
| 0 | WARN |
| 1-500000 | INFO |
| 1000000 or above | DEBUG |

The method will return a double and this value is the taxable amount for the salary, which is to be calculated at 20% of the salary.