The following assignment makes you to use all the Spring core features that you learnt.

A company’s finance department wants you to develop a desktop application using Spring framework. Their requirements are below.

Create a PayrollProcessor bean which depends on the following beans to generate monthly salary slip.

1. Employee bean:

This bean contains employee Id, grade,employee name etc

2. SalaryInfo bean:

This bean provides salary details. It has a method getSalaryforGrade(String grade) which returns salay in int for the given grade.

3. AttendanceInfo bean:

This bean provides the total number of working days, loss pay days details.It will have the following methods

int totalWorkingDays getTotalWorkingDays(String month)

int lossOfPayDetails getLossOfPayDetails(Iint employeeId,String month )

4. TaxInfo bean:

This bean provides for the given salary slab what will be tax percentage. It will have following method

float taxRate getTaxRate(float salarySlab)

5. LoanInfo bean:

This bean provides EMI amount for the loan taken by the employee .

float emi getEMIforLoanTaken(int employeeId)

You need to wire all the above beans into the PayrollProcessor bean by setter injection.

Define ten employee beans in the application context xml file and inject these 10 employee beans as collection to the PayrollProcessor bean.

PayrollProcessor bean will have a method generatePayslip().This method will use the information from these beans and will calculate the gross salary and net salary of each employee. Detect the EMI amount from the net salary if the employee borrowed any loan.

Wire the following beans to PayrollProcessor bean using auto wiring by type

PrinterInfo bean , which is used to connect to the printer and take a print out of generated payslip. Provide appropriate method for the same

MailInfo bean, which will use mail API and is used to send an email to the employees about their payslips. Provide appropriate method for the same