

PaySlip Generator Problem Statement

ABC College (ABCC) is a newly established Community College Located in Ontario with a student population of approximately five thousand (5000) and a large competent workforce. ABCC staff is divided into two (2) major groups, i.e, faculty and non-faculty staff.

Non faculty staff are paid a fixed gross salary each month, however their salary is prorated in the event they do not clock 160 hours for the month. Whereas, Faculty salaries are generated by the number of hours they worked for a month multiplied by their rate of pay plus a teaching allowance. Faculty rate of pay and teaching allowances are influenced by their level of qualifications.

All employees must incur a CIT (Canadian Income tax), that is, 25% of their gross salary and a health surcharge fee on their income. However, all employees are entitled to a Personal Canadian Income Tax Free Allowance of 2500.00 per month. This means that you do not pay income tax on your first 2500.00 of income, thus, you pay no income tax at all if you earn less than this amount.

Due to a failure in the existing manual payroll system, employees throughout the College have been paid inaccurate and erroneous salaries. The said issue has caused several problems throughout the college, protest, cancellation of classes, just to name a few. To alleviate the problems, the president of the college mandated that a script be implemented to generate and process salaries for employees throughout the college.

Luckily, you have been contracted as a JAVA development to complete the development of the payroll console application for the college. The console app must allow an Accounts clerk to generate MULTIPLE employees' pay slips for A GIVEN MONTH.

Below lists the following features and business rules that must be implemented within the program to ensure the correct calculation of salaries:

Input & Gross Pay Calculation

General Guidelines for ALL Workers Your application should allow an accounts clerk to enter employee number, name, department, hours worked for a given month for multiple employees. Note, an employee type code can ONLY be 'F' or 'f' for Faculty and 'N' or 'n' for non faculty workers.

Faculty Gross Salary

If 'F' or 'f' was entered as the employee Type code then it implies that the employee is faculty and the accounts clerk should additionally be prompted for a Faculty qualification code.

- A qualification code can either be "M" OR "B". A faculty with a qualification code "M" would imply that the faculty have obtained a master's degree. Whereas, a faculty with a qualification code "B" would imply that the faculty has only obtained a bachelor's degree.
- Faculty with a master's degree would be paid \$175 per hour and their teaching allowance would be \$1500.00 per month. However, faculty with just a bachelor's degree would be paid \$100 per hour and their teaching allowance would be \$600 per month.

- *Please note, faculty gross salaries are generated by the number of hours worked for a given month multiplied by their rate of pay plus a teaching allowance.*

Non-Faculty Gross Salary

If 'N' or 'n' was entered as the employee Type code then it implies that the employee is a non faculty worker, and the accounts clerk should additionally be prompted for their monthly salary.

- A non-faculty worker would only earn their full monthly salary if they worked 160 hours for the month.
- If they DID NOT WORK 160 hours for the month then their monthly salary has to be prorated. Thus, they would only be paid for the hours they worked for the month.
- To do this, your application would have to multiply the employee hourly rate by the number of hours they worked for the month. To get the employee hourly rate, your program has to divide the worker's monthly salary by 160. (monthly salary/ 160).
- Non-faculty workers are to be paid double time for all hours worked over 160 for the month.

Deductions

The mandatory deductions that all employees incur on their income are:

- A Canadian Income tax of 25% of their gross salary and a health surcharge fee
- A health surcharge fee.
 - If an employee earns more than \$3000.00 per month then their health surcharge fee would be \$33.00.
 - If an employee earns \$3000.00 or less than, then their health surcharge fee would be \$19.20.
- Note, ALL employees are entitled to a Canadian Personal Income Tax Free Allowance of 2,500.00 per month. Note, a tax-free allowance is the portion of your salary that is not taxed. Thus, people who earn less than \$2500.00 per month will pay no tax.

Net Salary

The net pay for all employees is calculated by subtracting all deductions from the employee gross salary. PAY SLIP REPORT After all the information is captured from the user and the relevant calculations are performed, the program should generate the following :

- A payroll report displaying the output of ALL employees' info, specifically : employee number, name, employee type, gross salary, deductions and net pay.
- Display the total number of processed employees.
- Display the total number of faculty and non faculty workers that were processed.
- All of your output must be outputted to a text file (you are to submit this to blackboard as well).