

CST8110 - Introduction to Programming

Lab Exercise #5 - if statement

DUE: This lab must be completed and demonstrated to your lab professor

Write **a program (method main)** to solve the following problem: A company needs to calculate an employee's wages.

- Prompt the user for the number of hours worked by the employee this week, and the hourly rate they get paid.
- The company pays straight time as base pay for the first 37.5 hours worked (ie hours multiplied by rate) and time and a half for the hours worked over 37.5 (ie hours multiplied by rate*1.5). Calculate base pay and overtime pay.
- Income tax is deducted and is calculated as 0 for wages (base pay plus overtime) less than \$1,000 for the week, 20% for wages between \$1,000 and \$2,000 inclusive, and 30% otherwise. Calculate income tax.
- Display base pay, overtime pay, tax deducted and net pay for the employee.

BONUS: add editing so that only hours of 0-60 can be entered, and rate of pay can only be 0-1500. (Don't need to add handling for alphabetic entry yet).

Example 1:

Enter the number of hours worked : 40
Enter the rate of pay: 10.00

Base pay is \$ 375.00
Overtime pay is \$ 37.50
Total pay is \$412.50
Tax deducted is \$ 0.00
Net pay is \$ 412.50

Example 2:

Enter the number of hours worked : 30
Enter the rate of pay: 100.00

Base pay is \$ 3000.00
Overtime pay is \$ 0.00
Total pay is \$ 3000.00
Tax deducted is \$ 900.00
Net pay is \$ 2100.00