# Spring 2020, CS3300 - Assignment1 (100 points)

(Due Date: 11:59PM of 02/01/2020)

**Objective:** Basic Java console output format, Console input, conditional execution, arithmetic expressions.

**Submission:** Create only one .java file with main method. Submit (1) the .java file. (2) Screenshots of outputs of the test cases given. <u>Do not submit .class file or the entire project</u>.

#### Note:

• You might need conditional statements, modulus operator for integers. Put code within the main function.

An employee is paid at a rate of \$17.25 per hour for up to 40 regular hours worked in a week. If the employee works more than 40 hours, it is considered overtime. Any hours over 40 hours but less than or equal to 60 are paid at the overtime rate (\$12.34 per hour). Any hours over 60 hours but less than equal to 80 hours are paid at the overtime rate (\$14.34 per hour). Any hours over 80 hours are paid at the overtime rate (\$16.00 per hour).

From the worker's gross pay, 14% is withheld for federal income tax, 5% is withheld for state income tax. \$80 is withheld to cover the insurance of the worker and 2 dependents. If the worker has more than 2 dependents, then an additional \$25 is withheld per dependent for insurance. Write a Java program that will read in the name of the employee, number of hours worked in a week and the number of dependents as input. The program should then output the worker's name, number of dependents, gross pay, each withholding amount, and the net take-home pay for the week.

#### Note that the ONLY INPUTS the user provides are

- The employee's name.
- The number of hours worked in the week.
- The number of dependents.

Below are four Sample I/O

```
Net Paycheck Calculator
Employee's Name: John Smith
Number of Hours Worked in a Week: 43
Number of Employee's Dependents: 3
                                        :John Smith
Employee's name
                                        :3
Number of Dependents
                                        :43
Hours worked
Overtime hours
                                        :3
Gross Income
                                        :$727.02
State Tax Withheld @ 5%
                                       :$36.35
Federal Tax Withheld @ 14%
                                        :$101.78
Worker and 2 Dependents' Insurance
                                     :$80.00
Additional Dependents' Insurance
```

### Net Paycheck Calculator

Employee's Name: John Smith

Number of Hours Worked in a Week: 63 Number of Employee's Dependents: 0

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Employee's name	:John Smith
Number of Dependents	:0
Hours worked	:63
Overtime hours	:23
Gross Income	:\$979.82
State Tax Withheld @ 5%	:\$48.99
Federal Tax Withheld @ 14%	:\$137.17
Worker and 2 Dependents' Insurance	:\$80.00
Additional Dependents' Insurance	:\$0.00
Net Take Home Pay	:\$713.65

# Net Paycheck Calculator

Employee's Name: John Smith

Number of Hours Worked in a Week: 35 Number of Employee's Dependents: 2

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Employee's name	:John Smith
Number of Dependents	:2
Hours worked	:35
Overtime hours	:0
Gross Income	:\$603.75
State Tax Withheld @ 5%	:\$30.19
Federal Tax Withheld @ 14%	:\$84.53
Worker and 2 Dependents' Insurance	:\$80.00
Additional Dependents' Insurance	:\$0.00
Net Take Home Pay	:\$409.04

## Net Paycheck Calculator

Employee's Name: John Smith

Number of Hours Worked in a Week: 82 Number of Employee's Dependents: 4

Employee's name :John Smith

Number of Dependents Hours worked :82 Overtime hours Gross Income :\$1255.60 State Tax Withheld @ 5% State Tax Withheld @ 5% Federal Tax Withheld @ 14% :\$175.78 Worker and 2 Dependents' Insurance Additional Dependents' Insurance :\$50.00

Net Take Home Pay :\$887.04