**CSCI 2302**

**Multidimensional Array Program**

**Payroll Problem**

**Problem**: Create a program that will calculate the weekly payroll for the Lumberjack Workforce.

Your program needs to read in the employees daily hours, how many hours he or she has worked for the week, calculate the gross pay, and calculate the net pay. Each employee’s pay rate is 7.50 and each employee pays the federal tax rate of 10%. For each employee, print the pay rate, total hours worked, gross pay and net pay.

**Requirements**: name the program mySFAUsername\_MDA\_Payroll\_Program.java, name the data file payrollData.txt, and name the output file payrollOutput.txt

Make sure to adhere to the requirements, submit your program, and verify your results.

Sample of payrollData.txt: The first item in the file specifies how many employees

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| Employee 0 | 7 | 1 | 0 | 3 | 3 | 2 | 1 |
| Employee 1 | 4 | 3 | 5 | 2 | 2 | 3 | 0 |
| Employee 2 | 5 | 2 | 3 | 1 | 4 | 3 | 2 |
| Employee 3 | 2 | 4 | 3 | 5 | 3 | 2 | 0 |

Sample of output:

Employee Rate Total Hours Worked Gross Pay Net Pay

0 7.50 17 127.50 114.75

1 7.50 19 142.50 128.25

2 7.50 20 150.00 135.00

3 7.50 19 142.50 128.25

**MD Array Payroll Pseudo Code Program**

Declare a Scanner to read from file, payrollDdata.txt

Read in the “row”= the number of employees

Declare the 2D array

Loop to read in data into a 2D array (#1 of Processing 2D Arrays)

Close Scanner

Declare a PrintWriter to write to payrollOutput.txt file

Print titles

Loop to: (#4 & 5 of Processing 2D Arrays (modified to sum by rows))

Sum the row to get totalHoursWorked

Calculate the gross pay

Calculate the tax

Calculate the net pay

Print format the: rowIndexNumber, rate, totalHoursWorked, gross pay, net pay

Close the PrintWriter