**CSCI 360-1 Assignment 6 – Multiplication and Division Spring 2019**

**75 points**

Write an Assembler program to calculate payroll for a business. Each employee has an hourly pay rate, a number of hours worked in the pay period, a deduction amount for any lunches eaten in the company cafeteria during the pay period, and, if earned, a bonus amount. Of course, each employee has a name and employee identification number.

To begin this assignment, you can use TSO/ISPF option 3.3 to copy a previous assignment member in your PDSE and name the new copied member ASSIGN6. If you do this, be sure to change ASSIGNn to ASSIGN6 wherever necessary.

**Input**

Each input record contains, from left to right across the 80-byte record, the following data about a single employee: employee id number, hourly pay rate, number of hours worked in the pay period, deduction amount, and bonus amount, with the three dollar amounts rounded to the whole dollar. Following the five numbers and beginning in column 25 and for a length of 25 bytes is the employee's name. (Hint: Use MVC to move this character string to the print line.)

**Calculations**

Your program must calculate each employee's gross pay amount using the following formula:

gross pay amount = hourly pay rate \* number of hours worked – deduction amount + bonus amount

Your program also must count the number of employee's processed and must keep a running total of the gross pay amounts and a running total of the bonus amounts.

Finally, after the loop ends, your program must calculate the average gross pay amount for the employees listed. Use the following formula:

average gross pay amount = total gross pay amount / employee count

When preparing to print the average, disregard the remainder and display only the quotient of the division.

**Output**

For each record, print out (using XPRNT) the employee's name, employee id number, hourly pay rate, number of hours worked, deduction amount, bonus amount, and, finally, the gross pay amount that you calculated across one output line, double spaced. At the end of the report, and on separate lines and on the left, just under the employee's name, print out the number of employees processed, the total bonus amount and the total gross pay. And finally, on a fourth line, print out the average gross pay amount. Be sure that you double space all of the output lines. For guidance, see the exact output document named:

360 Assign 6 Exact Output Sp19.txt

**Important Notes**

Here is the data in the PDSE member:

12345 15 80 25 500      JOAN TOWER

23456 19 80 00 010      WOLFGANG AMADEUS MOZART

22132 10 80 31 200      RICHARD STRAUSS

65465 22 80 15 900      AMY BEACH

44560 23 28 34 070      DAME ETHEL SMYTHE

99870 22 80 21 000      PETER ILYICH TCHAIKOVSKY

14966 20 78 00 210      ANTON BRUCKNER

The data above can be accessed by copying or typing in the following into your ASSIGN6 PDSE member replacing what is there from your previous PDSE member:

END ASSIGN6 🡨 provided as a reference to help you place the following JCL.

/\*

//\*

//FT05F001 DD DSN=KC02322.CSCI360.DATASP19(DATA6),DISP=SHR

//\*

//FT06F001 DD SYSOUT=\*

//\*

//SYSPRINT DD SYSOUT=\*

//

**Other**

Fully document your program as instructed in the CSCI 360 Course Notes.

Be sure you are using the structured read loop as taught to you in class.

Be sure that your ENTIRE output is included in the .txt file BEFORE you submit it for grading. If any or all of it is missing, you will earn a 0 on the assignment.

Submit the .txt output from Marist on Blackboard as before.