**CSCI 360-1 Assignment 5 - Looping, XREAD and XPRNT Fall 2018**

**100 points**

For this assignment you will write a program named ASSIGN5 that reads in an unknown number of records, each with 3 numbers on it. For each record read, print out the numbers and the sum of the 3 numbers on the record. Additionally, while processing records, count the number of records and add each sum you calculate for each single line to a total of sums. After you have processed all of the records in the loop and the loop ends, compute the quotient of the average and display it as follows:

AVERAGE OF RECORD SUMS (QUOTIENT): nnnn

where nnnn represents the quotient of the average that you calculate.

Use your Assignment 3, Part B, program as a starting point for this assignment.

Each record has the following format:

columns 1-4 blank

columns 5-8 first number

columns 9-11 blank

columns 12-15 second number

columns 16-18 blank

columns 19-22 third number

columns 23-80 blank

Program incrementally! That means just read one record and print out those numbers. When that works, put in a loop. If you get one part working before moving on to the next, your debugging will be much easier and less time consuming.

Use a top driven loop as expressed in the following pseudocode:

READ FIRST RECORD  
WHILE (NOT EOF)    🡨 IF EOF BRANCH END LOOP  
  BODY OF LOOP  
  READ NEXT RECORD  
  BRANCH TO TOP OF LOOP  
END LOOP

Replace everything that follows your actual Assembler code in your program copied from Assignment 3, Part B, with the lines (in blue) below. **Note the END statement of your program has been shown here as a point of reference:**

END ASSIGN5

/\*

//\*

//FT05F001 DD \*

4500 -230 9

0 +7 2

8516 2853 0

0020 0 3245

5529 6977 1681

1013 250 85

0 3364 5275

-887 1100 2293

1234 8447 4591

-89 -7 23

8513 5409 2538

0001 0002 0003

9999 9998 9997

/\*

//FT06F001 DD SYSOUT=\*

//

The // line indicates the LAST thing in your JCL!

**DO NOT FORGET TO FULLY DOCUMENT YOUR PROGRAM AS DESCRIBED IN THE CSCI 360 COURSE NOTES BEGINNING ON PAGE 9.**

Use mar\_ftp.exe to download a .txt copy of your program's output. **Be sure to open the file, scroll to the bottom, and make sure that it is all there!** Submit the .txt file on Blackboard as before.