Mainframe Development I - 2018

**LAB 5**

This lab is a continuation of LAB 4, using **PERFORMED PARAGRAPHS**. Download the new lab5.dat and the Sample output from DC Connect.

Change LAB 4 in the steps outlined below. I would get the first five steps to work before moving on to the next steps (Lab 5 additional requirements).

1. Lab #4 should have a minimum of 6 paragraphs + the main-loop (so at least 7 in total). There should be paragraphs for:  
   1. Headings (should already have from #4)
   2. Totals (should already have from #4)
   3. Greater than 5000
   4. Less than 5000
   5. Under Minimum logic
   6. Over Maximum logic
2. ALL paragraphs should have a number as a prefix # at the beginning, e.g. 100-HEADINGS, and that number must be in ascending sequence as you go through the Procedure Division.   
   1. You will also need to produce a structure chart to document your program as outlined in class.
3. Use WORKING-STORAGE variables for ALL output as outlined in class.
4. If you haven’t already done so, create 77 level variables for each of $5000 and 12 1/2% to serve as constants in WORKING-STORAGE. Use the data names in the procedure division in place of the values in the procedure division.
5. Try the program, the output should be the EXACTLY the same as LAB 4 (with a few new records from lab5.dat appearing).

**LAB 5 ADDITIONAL REQUIREMENTS**

Add the following to the lab.

1. For sales staff who get the BONUS (> 5000), print out the remarks “EARNED OVER MAX” when appropriate and for those with NO BONUS, print “EARNED UNDER MIN” when this applies. Print this remark to the right of the last data field (PAID) with an appropriate column heading. See sample output.
2. Calculate and print the percent number of salespersons who are paid the amount **they earned** (one answer, including both groups). To accomplish this, some coding will have to be repeated in different parts of the program and this is ok. Print with a short title, correct to a whole number (i.e. 75%), print the % sign.
3. Change the print out so there are only 10 salespersons per page.
4. Print your name/date/time, report heading and column headings on each page. You will need to use the “after page” option on your WRITE statement as outlined in class.
5. Print a total at the end of the end of the program indicating the percentage of salespeople above and below $5000 in sales. Calculate to 2 decimal places.   
     
   **For example:** if there were a total of 10 salespeople, with 6 above 5000 and 4 below, it would be

Percent > 5000: 60.00%

Percent <= 5000: 40.00%

Place this total below the others on the output. Remember that these two should total **exactly** 100%. You must calculate these 2 values **independently of one another.** You will need two separate counters for over 5000, & under 5000.