COBOL PROGRAMMING ASSIGNMENT - 2016

**LAB 7**

The lab makes fairy major alterations to Lab 6. Download the new data file and the new sample outputs from the DC Connect Dropbox.

1. Change the program so that it uses the EVALUATE verb instead of IF for the “years-of-service” logic. The business rules remain the same.
2. There is a new field on the input file called BUDGET-ESTIMATE. It is PIC 9(6)V99, and is located right after the SALARY field.
3. Change the number of lines per page to 20. When viewing the output in NotePad++ (or whatever) it may be necessary to turn Word Wrap off (View -> Word Wrap), it makes the output somewhat easier to read.
4. Alter your program so that is has 2 output files instead of 1. This is a significant alteration. One output file will show all the Grads (‘G’), the other will show all Non-grads (‘N’). Both GRADS and NON-GRADS are to be output to the “normal” print output.
   1. Remember that you will have to add a SELECT statement, an FD and 01, OPEN’s and CLOSE’s as well as the logic to write out the records. If you designed Lab #6 as recommended with paragraphs for N and G you should put the actual WRITE logic in the G and N paragraphs themselves. If you did NOT have G and N paragraphs you may choose to re-design a bit.
   2. Also remember that you will need to have separate line / page counters and totals for both print files.
5. The BUDGET-ESTIMATE field is how much has been budgeted for the new salary field. So, it is basically someone’s guess of what the new salary is going to be. Here’s an example:

OLD INCREASE NEW BUDGET DIFF

004 ACHER WILLIAM 7,260.05 $0.00 $ 7,260.05 7,200.00 -60.05

Note that the Budget estimate and the Difference are to be printed out on the reports – Check the new output file.

William’s new salary is 7,260.05. His budgeted amount is $7,200.00. Calculate the Budget Difference by subtracting New Salary from Budget Estimate. In this case the budget difference is -60.05. If the budget amount is too low, the budget difference field will be negative. If the budget difference is too high, it will be positive. Check it on the sample output. Use Floating negative signs ( - ) on the Budget Difference output field.

Continue to print out the Averages at the end of the report, but it is only necessary to print out the averages that are applicable to what report it is – so, for example, the Non-Grad report will only show ‘Prog’ and ‘Jr Prog’ since all N’s are one of those categories.

On both Reports accumulate and print out, with a short title, the total budget difference (which also could be negative) – one for each report, so there is a NON-GRAD BUDGET DIFFERENCE and a GRAD BUDGET DIFFERENCE – one at the end of each report.

Finally, use Visio or another common piece of software (Word, Paint, etc.) that can draw shapes and produce a Systems Flowchart showing the program and output files.

HAND IN:

* A ZIP or 7z archive containing your **ENTIRE** VS2015 Native Cobol Console Project
* Systems Flowchart