PROGRAMMING EXERCISE

1. Revise sample program number 2 (from the lecture) to display the output below:

COLLEGE OF COMPUTER AND INFORMATION SCIENCE

STUDENT POPULATION

|  |  |  |  |
| --- | --- | --- | --- |
| YEAR | BSIT | BSCS | TOTAL NUMBER  OF STUDENTS |
| FRESHMEN | 99 | 99 | 999 |
| SOPHOMORE | 99 | 99 | 999 |
| JUNIOR | 99 | 99 | 999 |
| SENIOR | 99 | 99 | 999 |
| TOTAL | 999 | 999 | 999 |

Requirements:

1. Enter the number of students per year level and per course.
2. Compute for the total number of students per year level (i.e. for both BSIT and BSCS).
3. Compute for the total number of BSIT students (i.e for all year levels) and BSCS students (i.e for all year levels) and total number of students (i.e for all year levels).

2. Create a COBOL program to enter the following input record format in two input files. You may create the input files externally or within the program.

STUDENT NUMBER - 10 characters

STUDENT NAME - 25 characters

QUIZ #1 - 9V99

QUIZ #2 - 9V99

QUIZ #3 - 9V99

Merge the two files with student name arranged alphabetically. Then, use the merged output file to compute for the average of the 3 quizzes. Save it in an output file including the average grade computed. Finally, sort the output file with the average grade arranged from highest to lowest grade and student name arranged alphabetically. Produce the output layout below.

OUTPUT LAYOUT:

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

QUEZON CITY CAMPUS

BSIT 2-1 & BSIT 2-2

QUIZ SUMMARY

STUDENT STUDENT QUIZ#1 QUIZ#2 QUIZ#3 AVERAGE

NUMBER NAME

2020-1-CM0 JUAN DELA CRUZ 1.50 1.00 1.75 1.42

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PER QUIZ AVERAGE 9V99 9V99 9V99 9V99

HIGHEST GRADE PER QUIZ 9V99 9V99 9V99

LOWEST GRADE PER QUIZ 9V99 9V99 9V99

HIGHEST GRADE AVERAGE 9V99

LOWEST GRADE AVERAGE 9V99