JAVA 1 - JAVA FUNDAMENTALS (GR11CPROGA 2019-20)

Midterms Set A

1. Create a menu type program that asks for the student name, year code, and the number of units enrolled. (40pts)

Computations are as follows:

Tuition fee = number of units * rate per unit

Balance = tuition fee – down payment

The rate per unit is based on the following:

Year Code	Year Name	Rate per Unit
1	Freshman	400.00
2	Sophomore	350.00
3	Junior	300.00
4 and 5	Senior	250.00

Required down payment is based on the following:

Number of units	Down Payment
1-9	1000.00
10-15	1500.00
16-21	2000.00
Above 21	2500.00

Output the student name, year name, number of units enrolled, tuition fee, down payment and balance.

*Be wary of the invalid inputs of some variables and procedures. Prompt an invalid or error message then loop back.

*Should have 3 options and 1 option for exit.

*First option – will do the inputs and computations.

*Second option – will display the information or the output needed, will prompt a no enrollment information if there's no enrollee yet.

*Third option – will prompt a successful print and will reassign the variables to their default values, and will prompt a no data found if no enrollee yet.

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2. Create a void type with no parameter program that will ask for 10 integer values. Get the highest and the lowest number out of the input values and display. (20pts)

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3. Create a return type with no parameter program that will ask for a number and return its factorial value. (20pts)

Example:

Enter number: 7

7! = 5040

Hint: 7! = 7 * 6 * 5 * 4 * 3 * 2 * 1 = 5040

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4. Create a return type with two parameters; first number is the starting and second number is the ending. Compute for their consecutive sums, return the value from the method and print the result on main. (20pts)

Example:

Enter first number: 3	**Enter first number: -4**
Enter second number: -5	**Enter second number: 8**
Result: -9	**Result: 26**

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