



UNIVERSITY OF CALOOCAN CITY
Caloocan, 1400 Metro Manila, Philippines

COLLEGE OF ENGINEERING
Computer Engineering
2nd Semester, School Year 2024-2025

Laboratory Activity No. 2.2	
Literals, Operators, and Variables	
Course Code: CPE103	Program: BSCPE
Course Title: Object-Oriented Programming	Date Performed: 01/02/25
Section: 1-A	Date Submitted: 01/02/25
Name: Villacin, Justine R.	Instructor: Engr. Rizette H. Sayo
1. Objective(s):	
1. Implement literals and variables in a python program.	
2. Intended Learning Outcomes (ILOs):	
The students should be able to: 1. Write a simple program implementing literals and variables. 2. Use comments and identify keywords from identifiers created by users.	
3. Discussion:	
1. Discuss the use of variables, constants and literals in a python program.	
4. Tasks:	
<p>A teacher wants to calculate the final grade in a CpE course and want to write it in a python program. The following are the requirements:</p> <ol style="list-style-type: none">PRELIM GRADE = 50% Prelim Exam + 50% Prelim Class Standing (CS)PRELIM CS = 50% Hands-on activity + 30% Quiz + 20% AssignmentMIDTERM GRADE = 1/3 of PRELIM GRADE + 2/3 of (50% Midterm Exam + 50% Midterm Class Standing (CS))MIDTERM CS = 50% Hands-on activity + 30% Quiz + 20% AssignmentFINAL GRADE = 1/3 of MIDTERM GRADE + 2/3 of (50% Final Exam + 50% Final Class Standing (CS))FINAL CS = 50% Hands-on activity + 30% Quiz + 20% AssignmentHOAs, Quizzes and Assignments are inputted as average of all submissions and are out of 100%.Major exams are inputted out of 100%.	



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9. Show the codes that successfully run the program.
10. Provide comments or documentation strings for your program.

PLEASE REFER TO THIS LINK FOR MY ANSWERS.

https://colab.research.google.com/drive/1WnhLr3sjZzHPiow_uBYZHnNdP5AxCyEf#scrollTo=U_6t4DSBJEQN&line=75&uniqifier=1

5. Supplementary Activity:

1. **Test 3 students from the program you created.**
2. **The program should show the name of the student, the PRELIM, MIDTERM and FINAL grades.**
3. **Convert the final grade into the UCCs numerical grade. Please refer to the grading system.**

PLEASE REFER TO THIS LINK FOR MY ANSWERS.

https://colab.research.google.com/drive/1WnhLr3sjZzHPiow_uBYZHnNdP5AxCyEf#scrollTo=U_6t4DSBJEQN&line=75&uniqifier=1

6. Conclusion

In conclusion, this laboratory exercise improved my programming skills because it required the usage of classes, objects, and so on to develop a grading system that computed the equivalent of grade in terms of UCC grading numerical grade. In order to complete this laboratory exercise, we must also use simple mathematics and logic thinking.

7. Assessment Rubric: