

# DASL-100.2

## C++ Programming and Linux

### Homework #1 – Due 2/11/2023

- I. As the semester about to finish, you would like to create a program that could calculate your final grade based on the theoretical grade you'd get on your final exam :
  1. Write a program that allows user to enter two integers. The input cannot exceed 200. (Two possible grade you'd get on your final).
  2. Declare a 3<sup>rd</sup> variable and assign a value of 1100 (This is your current points in the class).
  3. Declare a 4<sup>th</sup> variable and assign a value of 1400 (This is the total points in the class).
  4. Declare a 5<sup>th</sup> variable and perform math: (This is your final grade)
    - a)  $\text{Final grade} = (\text{current points} + \text{input final grade}) / \text{total points} * 100.$
  5. If your final grade is
    - a) Less than 59 then you get F
    - b) 60-69 then you get D



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- c. 70-79 then you get C
  - d. 80-89 then you get B
  - e. 90-100 then you get A
6. Perform data output:
- a) If you get “input 1/2” on your final exam,
  - b) Then your final grade point is:
  - c) Your letter grade is:

- \*Note: Every problem is worth 5 points. Problem 1 and 4, 5, 6 can be earned 1 points of extra credit.



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- II. Write a program that allow user to enter 2 characters and store in an array of two elements.
  1. Enter your first initial:
  2. Enter your second initial:
  3. Combine this array into a string.
  4. Declare another string variable and assign : "Hello ! Welcome to DASL"
  5. Add the 2 initials to the string above so that it will say: "Hello TT ! Welcome to DASL" (Example: TT are the input character)
  6. Count the length of this string.