

ENGR 0012 – Spring 2019
HW 1

Acceptable behaviors for this assignment include:

- Consulting your textbook or other written material
- Asking your team members
- Asking your professor or TA

Note that consulting materials and asking others is only acceptable as long as they do not provide you with the solutions – you have to come to the solution on your own!

Unacceptable behaviors for this assignment include:

- Copying the solution(s) from a solution manual, book, other written material, or from other students
- Copying the solutions(s) from assignments submitted in previous semesters
- Providing the solutions to a classmate, student in other section, student in future section, or online solution banks
- Asking someone to complete the assignment for you

Please copy this sentence in the line below: “I, (your name), certify that I have completed this assignment in an honest manner.”

1. Given the grading scale in the table, create a flowchart indicating the steps needed to assign a student’s final letter grade for a course. The student (the user) needs to provide their numerical grade (store it in a previously-declared variable) so that, for example, if the user provides an 85, the program displays a B grade. If the user has an F, the program displays a message indicating that the student failed the class.

Number	Letter Grade
≥ 90	A
$\geq 80, < 90$	B
$\geq 70, < 80$	C
$\geq 60, < 70$	D
< 60	F

2. Create a flowchart indicating the steps needed to get the sum of user-provided numbers. The sum and user inputs should be stored in previously-declared variables. The user should be able to provide as many numbers as they like, and when they are done providing numbers, the sum of those numbers needs to be displayed.