

# CSE 102 – Computer Programming

## HW 01

**Deadline: October 9, 2016 –11:55pm**

- (50 Points)** Write a complete C program that converts the user's numeric grades to letter grades. The program asks the user for multiple inputs. For each line a numeric grade is entered. When -1 is given, the user input is finished. The -1 is not processed. For each input, the corresponding letter grade is printed. Once the user input is finished, the average of the numeric grade and letter grade is printed.

Use the following table for numeric and letter grade conversion.

number  $\geq$  90 letter grade: A

number  $\geq$  80 letter grade: B

number  $\geq$  70 letter grade: C

number  $\geq$  60 letter grade: D

number  $<$  60 letter grade: F

Example runs of the program follows.

100	100	-1	70
A	A	0 F	C
90	-1		70
A	100 A		C
-1			70
95 A			C
			-1
			70 C

- (50 Points )** Write a complete C program that does simple arithmetic calculations. The allowed calculations are '+', '-', '\*', and '\'. The operations will be applied as they come in. For example "a+b\*c+d" will be calculated as ((a+b)\*c)+d.

Example runs of the program follows.

10	0	-10	20
+	+	+	*
11	1	-10	2
+	-	-	=
12	0	10	40
=	=	=	
33	1	-30	

### General:

1. Obey honor code principles.
2. **Read your homework carefully** and follow the directives about the I/O format (data file names, file formats, etc.) and submission format **strictly**. Violating any of these directives will be penalized.
3. Obey coding convention.
4. Your submission should include the following files **and NOTHING MORE** (no data files, object files, etc):  
    HW01\_<student\_name>\_<studentSurname>\_<student number>\_part1.c  
    HW01\_<student\_name>\_<studentSurname>\_<student number>\_part2.c
5. Do not use non-English characters in any part of your homework (in Do not use non English characters in any part of your homework (in body, **file name**, etc.).
6. Deliver the printout of your work **until the deadline**.