## ECE160: Foundations of Computer Engineering I Homework #2 (Spring 2023)

**Assigned: February 3, Friday** 

Due by: February 10, Friday, 9am

## **Instructions:**

- 1. Please follow the "Submission Guidelines" in the Homework section of the course website to submit your answers (program files) to the class M: drive by the deadline.
- 2. Please create a subfolder name "hw2" under your "homework" folder and submit your files there. Suggested format for naming your solution files: hw2-your last name-p#.cpp

  For example: hw2-xing-p1.cpp for problem 1; hw2-xing-p2.cpp for problem 2
- 3. Relevant lecture notes: Lecture #6 & Lecture #7

## **Problems:**

1. Write a program that prints a triangle as follows:

A
AB
ABC
ABCD
ABCDE
ABCD
ABC
ABC
ABC
ABC
AB

2. Write a program that prints the sunset shape as follows:

3. Write a program where you ask a user to enter 6 floating-point numbers between 0 and 30 from the keyboard, and you print them out **one per line** in the order the numbers are entered, then print the numbers in the reverse order, **again one per line**.

For example, the user entered 2.2 3.3 4.4 5.5 6.6 7.7, your output should be:

2.2 3.3

4.4 5.5

6.6 7.7

7.7

6.6 5.5

4.4 3.3 2.2