Laboratory #02 ENEE 148A Fall 2016

This laboratory will be done in pairs. You have two weeks to complete the lab.

Complete the following tasks:

1. Connect the necessary hardware to the RPi to test the program “blink.c”
2. Run the program “blink.” (This program is already loaded on your RPi).
3. Have your instructor verify successful operation.
4. Write, debug, and run a program that allows you to type in an integer *k* (0 to quit) and then have an LED blink *k* times.
5. Have your instructor verify successful operation.
6. Write, debug, and run a program that alternately blinks “dots” and “dashes” indefinitely. Write functions Dot() and Dash() and use them in the code.
7. Have your instructor verify successful operation.
8. Write, debug, and run a program that allows you to type in a sentence and then have the LED blink that word in Morse code (no input loop).
9. Have your instructor verify successful operation.

For the write-up of this lab, due 30 September 2016, you need to submit (1) the pseudo codes you wrote, (2) a paper copy of the codes that you wrote and (3) an electronic copy of the codes that you wrote. You also need to submit a copy of the circuit diagram you used to wire the circuit.