

## Lab 2

### EL 114 Digital Logic Design

Notes:

- In your lab-book, remember to write your steps/methods, and the observations/results
  - Get TA's signature after completing each question.
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1. Write a Matlab program to perform additions of the following decimal numbers with Binary Coded Decimal (BCD)- 8421 number system, and display the final results in the same number system, i.e., BCD-8421.

(a)  $(8)_{10} + (9)_{10}$

(b)  $(294)_{10} + (78)_{10}$

2. Write a Matlab program to perform additions of the following decimal numbers with Excess-3 code in 16-bit format, and display the final results in both Excess-3 code and decimal numbers.

(a)  $(27)_{10} + (69)_{10}$

(b)  $(497)_{10} + (111)_{10}$