Faculty of Engineering & Technology – Electrical & Computer Engineering Department
Digital Systems ENCS234

HW#1

Name   **#**

Question#1: Do the following operation using **BCD** addition - - - - -   **912 + 988**

Question#2: Perform the following operations

    a. $(A1A.4)_{16}$ ------------------- ($)_8$

    b. $(78.4)_{10}$ ---------------------($)_2$

Question#3: Find the 16 complement of 1F1E

Question#4: Represent the unsigned number **9** in excess-3 code, gray code and 2,4,2,1 code

Question#5: Consider A = -14, B = 24 do the following operation using signed 2 complement in 6 bit representation

    a. A+B
    b. A-B

Question#6: determine the base of the numbers in the operation (24 + 17 = 40)

Question#7: What is digital systems? What is the advantage of digital system compared to Analog system? (Please answer in 3 -5 lines also you can use the internet to read but please summarize in your own language)