

Evaluated Assignment No 01 : Spring 2017

Due Date : 03 Feb 2017 Before the Class starting time

Problem No 01

Given the two unsigned numbers $X=(9BE.F)_{16}$ and $Y=(5142.043)_6$

- Perform subtraction $X-Y$ using 1's complement.
- Convert your answer to Excess-3 and Gray codes.

Problem No 02

Given the two signed numbers $A=-(29)_{10}$ and $B=+(85)_{10}$. Perform the subtraction $A-B$ using 2's complement method. Indicate whether overflow occurs.

Express the result in 8-bit Sign-magnitude, Sign-1's complement and sign-2's complement form.

Problem No-3

Perform the following conversions

$(01101001.101)_2$ to Excess-3 form