

## CTT10009 – COMPUTER SYSTEM

### EXERCISES

#### EX1: Floating-point Representation

##### I. Information:

Code:	EX1
Deadline nộp bài:	
Form of submission:	Individual
Tool to submit:	Moodle
Supervisor	Chung Thùy Linh
Email	ctlinh@fit.hcmus.edu.vn

##### II. Outcome

After this exercise you will reach to:

- G3.1: Be able to understand the math of number systems (integer, floating-point) and how to store different type of data on the computer . Conversion of system numbers.

##### III. Describe

A. Convert these following binary number to hexadecimal and decimal number (unsigned integer 8-bit)

1. 01010101, 10101010
2. 11110000, 00001111
3. 11111111, 01111111

B. Convert these following binary number to hexadecimal and decimal number (signed integer 8-bit)

1. 11110000, 00001111
2. 11111111, 01111111

C. Caculate these following shift operations: x SHL 2, x SHR 2, x SAR 2 with:

1. x = (uint8) 14
2. x = (sint8) -6

##### IV. Submission requirement:

1. Please submit to moodle site with the name **Student\_ID.pdf**