

# KHOA CÔNG NGHỆ THÔNG TIN TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN

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## CTT10009 - COMPUTER SYSTEM

## Homework 1

**HW1: Floating-point Representation** 

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	Into	rma	tion:	
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Code: HW1

Deadline nộp bài:

Form of submission: Individual
Tool to submit: Moodle

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### 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

#### III. Describe

- A. Write a program (any language you familiar with) to adopt these requirements:
  - 1. Input a double number X
  - 2. Output the binary bit pattern of X
- B. Write a program (any language you familiar with) to define new data type
  - 1. Read X from a file

Note: 64 bits

2. Output the value in decimal of X

Ex: Output: 0.5

## IV. Submission requirement:

- 1. Report student ID.pdf is included:
  - a. Your idea: writing in mindmap/ workflow form/ peseudo code
  - b. The result when you run your program (capture the screen)
- 2. Source code: student\_ID\_A.c and student\_ID\_B.c (or .cpp file)
- 3. Please zip all files and submit to moodle site with the name **Student ID.zip**