

CSCI 4591: Computer Architecture
HW Assignment # 5

Due Date: March 7, 2021 @ 12:55 PM

1) Express the following numbers in IEEE 32-bit (single precision) floating point format:

- 1) $-5.5 = 1\ 10000001\ 010000000000000000000000$
- 2) $0.0005 = 0\ 01110100\ 0000011000100100110111$
- 3) $0.1 = 0\ 01111011\ 10011001100110011001101$

2) The following numbers use the IEEE 32-bit (single precision) floating-point format. What is the equivalent decimal value?

- 3) $1\ 10000011\ 110000000000000000000000 = -28$
- 4) $1\ 01111110\ 101000000000000000000000 = -0.8125$

Create the text file using Microsoft Word, Open Office Writer, or a text editor. Name the document as follows:

FirstName_LastName_HW5

Rubric for Grading:

	Description	Points
Question 1		30
Question 2		20
Total Points		50