COMP1047 Lab Week 04

1.	Convert the Hexadecimal number 3A.F0 into single precision floating point representation. Show its corresponding 32-bit word in Hex format.
2.	Work out the IEEE 754 single-precision representations for the following numbers. (a) 10.25 (b) -128.6
3.	Write a MIPS program, using .word or .float directive to store both numbers into the memory and then print them out to check whether your results in the previous question are correct. <i>Hint: You may need to use instruction lwc1</i> .
4.	Write a short MIPS program to complete the addition and multiplication of the two numbers (10.25 and -128.6), and then print the results out.

5.	Write a program in MIPS32 assembly language which reads two numbers x and y
	from the console, calculates, then prints x + 2y + 32769. Hint: no multiplication is
	necessary and proper user prompts are expected.

6. Write a program in MIPS32 assembly language which reads three integer numbers x, y and z from the console, then calculates and prints out m, the minimum of the three. The following C segment shows how m can be calculated:

$$m = x;$$
if $(m > y) m = y;$
if $(m > z) m = z;$

7. Write a program in MIPS assembly language to read two integer numbers A and B. The program should indicate if one of these numbers is multiple of the other one.