

COMP3211/9211 11s1

Tutorial 1 (Week 02)

In this tutorial, please complete the following exercises.

Exercise 1: Introduce yourself to your class.

Exercises 2: Discuss questions attached. The tutor will assign questions to each of the students in the class. The whole class will discuss the solutions presented by each student.

Exercises 3: Project group formation

Talk to your classmates and form your project group. Register your group with your tutor.



Questions:

1. Refer to the lecture slide P5 of wk1_2, what is the 32-bit value for `zero_ext(0x8314)` and `sign_ext(0x8314)`?
2. Explain the concept of big endian and little endian. How should the value `0x12345678` be stored in the memory location `0x0001FF` if the little endian scheme is used? Can you find out how big the memory space is, based on the information given in this question?
3. What is the difference between two MIPS instructions, *add* and *addu*? Please give some examples to demonstrate the difference.

The following questions are from the P&H textbook:

4. 2.1.1
 5. 2.4.4
 6. 2.4.5
 7. 2.7.1, 2.7.2 and 2.7.3
 8. 2.13.1
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