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.

Note: P&H refers to 4th Edition (Revised) printing. The questions are similar in style, though not identical to those in the 4th Edition. For this week a photocopy of the questions from the revised edition is posted in the Protected Materials section of the COMP3211/9211 course website.

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