**Laboratory 3 – ITITIU22240 – Đàm Nguyễn Trọng Lễ**

**Exercise 1: Write a program that**

and andi nor or ori sll srl xor xori

* 1. Put the number 0xABC22240 into register $t1 **without** using pseudoinstruction **li**. (**lab4\_1\_1.s**)
  2. Redo 1.1 as follows: use **ori** to load **each letter** into register. (**lab4\_1\_2.s**)
  3. Suppose that $t1 = 0xABC22240. Using only register-to-register logic and shift instructions, Reverse the order of the bytes in $t1 so that register $t2 get the bit pattern 0x04222CBA (**lab4\_1\_3.s**)
  4. Redo 1.3 using only and, or, and rotate instructions. **(lab4\_1\_4.s)**

**Exercise 2: Write a program that**

* 1. Set the corresponding bit in register $t1 through $t8. That is, in register $t1 set bit 1, register $t2 set bit 2, and so on. (**lab4\_2\_1.s**)
  2. By using **ONLY** shift instructions and register to register logic instructions (no **li** pseudoinstruction or **addi**), put the pattern 0xFFFFFFFF into register $t1. (**lab4\_2\_2.s**)