**COMP 3315 Lab4: Procedure Calls**

**Number and Name:**

1. **Object**: MIPS Procedure call conventions
2. **Procedure**:

Write and run a MIPS algorithm that inputs an array of integers at data segment arr1 and the code stores only the negative elements of arr1 to arr2. Use test procedure that inputs a single integer and returns 1 if integer is negative and 0 if it is positive by testing the MSB of the integer. Call test for each member of the array.

**Example**: *arr1*: .word 5, -1, 4, -6, 0, 8, -3, -7

arr2 : -1, -6, -3, -7

Write the C code first and then convert it to MIPS code and the output with short comments in the box below.