CMPE 443 PRINCIPLES OF EMBEDDED SYSTEMS DESIGN

LAB #001 "Setup QEMU and LPC4088"

1) Preparation for Using Keil and QEMU   *(10 minutes)*

This part will not be graded. It will enable you to get ready for the prelab.

You have already generated the **.axf** file from the Keil in PreLab #001 part 1. You can directly use this file on the QEMU environment.

- Open the Keil.
- Open the project you did on the PRE1.
- Open Qemu Environment.
- Open LPC4088_Virtualizer
- Build the circuit you did on PRE1.

Observe that everything works as it did in the Prelab #001.

2) Using Keil and QEMU   *(20 minutes) - 6 pts*

This part will be graded.

In the Moodle there is a quiz for this lab. Change the **millisecond** variable value as the given answer of the quiz question. Build your code and run that code in the Qemu as you did before. Observe the change on the circuit.

Answer the questions in Moodle   *2 pts*

You will submit two files: *4 pts*

LAB<exp num>_<StudentID1>.c (This will be your main.c file with changed **millisecond** variable)

LAB<exp num>_<StudentID1>.axf (This will be generated axf file for changed **millisecond** variable)