UNIVERSITY OF THE PHILIPPINES
UPV Tacloban College
Division of Natural Sciences and Mathematics

CMSC 132 (Computer Architecture)
ASSIGNMENT GUIDE 1

Problem Set Outputs

A single task has to be accomplished for the first assignment. The task involves compiling all the source files (*.asm or *.circ) and their corresponding README files (*.pdf) that you wrote for all the problems in the activity guides. The first assignment is a major course requirement, and it is an individual assignment or can be accomplished in pairs.

TASK #1: COMPILATION OF THE PROBLEM SET OUTPUTS

TASK

You have learned how to address computational problems by creating circuits that solve them using Logisim or writing programs using the assembly programming language. However, to assess how well you learned to program, you must compile all the source files and their corresponding README files that you wrote for all the problems in the activity guides.

PROCESS

1. Review all the activity guides and ensure you have the following source files and corresponding README files.
    a. Assembly Programming with MIPS
        - A2.asm and CMSC132_A2.pdf
    b. Building a 4-Adder using Logisim
        - FourAdder.circ and FourAdder.pdf
    c. Building a 32-bit ALU with Logisim
        - ThreeTwoALU.circ and ThreeTwoALU.pdf
    d. Implement Sequential Elements in Logisim
        - DFlipFlop.circ and DFlipFlop.pdf
    e. Building the MIPS Main Control Unit with Logisim
        - ControlUnit.circ and ControlUnit.pdf

2. Each program is evaluated using the rubric defined below.

RUBRIC

Points	Description
10	The program produces correct output for all inputs Output is displayed as defined by the program specifications. All technical specifications are met.
7	The program produces correct output for all inputs Output is displayed in a different format. All technical specifications are met.

5	The program produces correct output for some inputs
0	The program does not produce correct output for any input

3. On the other hand, the technical report (README file) will be graded according to the following criteria:
    a. **Completeness (35%)**
        - 35 points if your report contains all the necessary information.
    b. **Structure (25%)**
        - 25 points if your report has good organization, i.e., paragraphs are well organized, sections are logical, and allows easy navigation around the document.
    c. **Mechanics (20%)**
        - 20 points if your sentences are well-written, word choice is acceptable, and free of grammatical and spelling errors
    d. **Figures, Tables, Graphics, Formatting (20%)**
        - 20 points if figures are relevant to the text, well-organized, and the has good formatting
4. Create a folder **CMSC132_PS** and copy all the files indicated in step 1 to this folder.
5. Create a zip containing this directory and name the zip file **CMSC132_PS.zip**.
6. Ensure that the zip file contains all the files indicated in step 1.

SUBMISSION GUIDELINES

Submit the required outputs of the fourth assignment to the following email address: submit2jpyusiong@gmail.com. Your email's subject line should have the following format: **Submission [CMSC 132]: Assignment 1 (Surname, First Name)**. The body of your email must contain the filename and the name/s of the student/s. The deadline for submission is **Friday of Week 8, up to midnight**. Other modes of submission are acceptable, but you need to consult with me.