EE 315 Week 6 Lab 5 Assignment

➢ Download the project folder.

➢ Factorial and Power functions/subroutines are given to you in this project.
   o "Factorial": calculates the factorial of R0 and writes it into R1.
   o "Power": calculates the power of R0 to R1, i.e., R0^R1, and writes it into R2.

➢ You will realize the main function calls these two functions and the functions are based on "Parameter Passing with Registers".

➢ Make the necessary changes in codes to change the parameter passing technique from "Registers" to "Stack" and modify the main function to test these new functions.

➢ New function definitions will be:
   o "Factorial": calculates the factorial of the value placed in top of the stack and writes the result into stack as well.
   o "Power": calculates the power of the two 32-bit data at the top of the stack, function takes the top one as the power and the bottom one as the base and writes the result back into the stack.

Goog Luck 😊