

EE 315 Lab Assignment for Week 13

Important Note: The problem below is to be solved individually by each student.

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- In the program code, you should modify the lines 37, 56 and 215.
- First create 4 bytes of global variables in memory named NUM1, NUM2 and RESULT in line 37
- Then initialize them in line 56.
- If we press the SW1, an interrupt occurs and the program will immediately branch into the GPIOPortF_Handler subroutine.
- In this subroutine, learn the lines commented as “WHY ARE WE DOING THIS?”
- Modify this subroutine (line 215) that will deal with “debouncing”
- Then find the result of $NUM1^{NUM2}$ and store the result in RESULT (an address in memory region).
- You should know where the result and global variables are stored and show it during the lab.

Example: NUM1=3, NUM2=2 RESULT= $3^2=9$

Hint: Check the 2018-2019 lab sessions