

## EE443 Laboratory 2 Question

**Q-)** In this lab, you should follow the steps below.

- Set an initial value to the register R14 and display it on 7-seg display.
- Decrease the value in R14 when button 1 is pressed (PORTB2) (falling edge)
- Increase the value in R14 when button 2 is pressed (PORTD2) (falling edge)
- Do nothing if the buttons are not pressed.
- If both buttons are pressed simultaneously for the duration of DELAY\_EX, set the initial value to R14
- (extra) If R14 is 0 (zero), do not allow decrease routine, and if R14 is 255 do not allow increase routine.

You should realize these steps inside a main routine, and you should always display the register R14 on 7-seg display.

*Hint* You can check the program EMULATOR\_BASE in teams documents.

*Hint* When button 1 is held down, R14 should decrease only once and not continue to decrease.