Assignment 2

1-Write Embedded C code to control a led using a push button. **(10 points)**

Requirements:

• The Led 1 & 2 is connected to pin 0 & 1 in PORTA.

• The switch 1 , 2 , 3 is connected to pin 0 & 1 & 2 in PORTB.

• If switch 1 is pressed just turn on the first led1 only , if switch 2 is pressed just turn on led2 only , if switch 3 is pressed turn on the 2 leds .

• In case no switches are pressed both leds are off.

2- Write Embedded c code to control a 7-segment using two push buttons. **(10 points)**

Requirements:

• The two switches are connected to pin 0 & 1 in PORTA.

• If the switch1 is pressed just increase the number appeared in the 7 segment display, and if the number reach the maximum number (9) do nothing.

• If the switch2 is pressed just decrease the number appeared in the 7 segment display, and if the number reach the minimum number (0) do nothing.