# PROJECT 2 Presentation

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Microprocessor 01205311

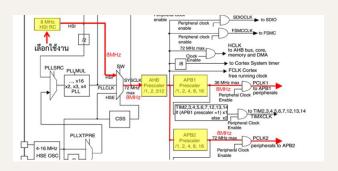
## **Project Number 2**

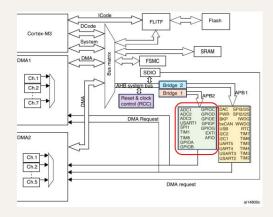
- 1. Write program in c
- 2. Start your program by displaying '7777' on 7-segments
- 3. After 2 seconds, display last 4 digits of one of your group member ID
- 4. After 2 seconds, display first 4 digits of one of your group member ID
- 5. After 2 seconds, display last 4 digits of the summation of all students ID in your group
- 6. After 2 seconds, display '----' and loop back to 3. and so on.



```
int main(void)
{
    GPIO_InitTypeDef GPIO_InitStruct;
    RCC_DeInit();
    RCC_APB2PeriphClockCmd(RCC_APB2Periph_AFIO, ENABLE);
    RCC_APB2PeriphClockCmd(RCC_APB2Periph_GPIOB, ENABLE);
    GPIO_PinRemapConfig(GPIO_Remap_SWJ_JTAGDisable, ENABLE);
    GPIO_InitStruct.GPIO_Pin= GPIO_Pin_0|GPIO_Pin_1|GPIO_Pin_3|GPIO_Pin_4|
    GPIO_Pin_8|GPIO_Pin_9| GPIO_Pin_10|GPIO_Pin_11|GPIO_Pin_12|GPIO_Pin_13|
    GPIO_Pin_14|GPIO_Pin_15;
    GPIO_InitStruct.GPIO_Speed = GPIO_Speed_50MHz;
    GPIO_InitStruct.GPIO_Mode = GPIO_Mode_Out_PP;
    GPIO_Init(GPIOB, &GPIO_InitStruct);
```







```
DISP1
LTC-4727JR
int count=300000;
                                                                                  PB8
PB9
                                                                                                                                  PB1
PB0
PB3
PB4
 while (count>0)
                                                                                  PB10
                                                                                  PB11
                                                                                  PB12
                                                                                                                                PB5
                                                                                  PB13
 GPIO_Write(GPIOB, 0x700);
 count--;
                                                                                   • GPIOB 8 - 15 used for creating character
 /* Infinite loop */
                                                                                     pattern (create 0 - 9 number)
                                                                                   • GPIOB 0, 1, 3, 4 used for controlling on and off 7
 while (1)
                                                                                      - segment digit (logic 0)
 int count=110000;
                                                                      2617
 while (count>0) //2617
 GPIO_Write(GPIOB, 0x5B3D);
 GPIO_Write(GPIOB, 0x7D3E);
                                            0101 1011 0011 1101
 GPIO_Write(GPIOB, 0x0637);
                                                                                         0000 0111 0010
 GPIO_Write(GPIOB, 0x072F);
                                                                        0000 0110 0011 10111
                                                     1111 1101 0011 1110
 count--;
```

```
count= 110000;
 while (count>0) //6210
                                                               6210
 GPIO_Write(GPIOB, 0x7D3D);
 GPIO_Write(GPIOB, 0x5B3E);
                                        1111 1101 0011 1101
 GPIO_Write(GPIOB, 0x0637);
                                                                                0011 1111 0010 1111
 GPIO_Write(GPIOB, 0x3F2F); -
                                                0101 1011 0011 1110 0000 0110 0011 0111
 count--;
count= 110000;
                                                               5647
 while (count>0) //5647
 GPIO_Write(GPIOB, 0x6D3D);
 GPIO_Write(GPIOB, 0x7D3E);
                                        0110 1101 0011 1101
 GPIO_Write(GPIOB, 0x6637);
                                                                                0000 0111 0010
                                                                0110 0110 0011 011 1111
                                                1111 1101 0011 1110
 GPIO_Write(GPIOB, 0x072F); -
 count--;
```