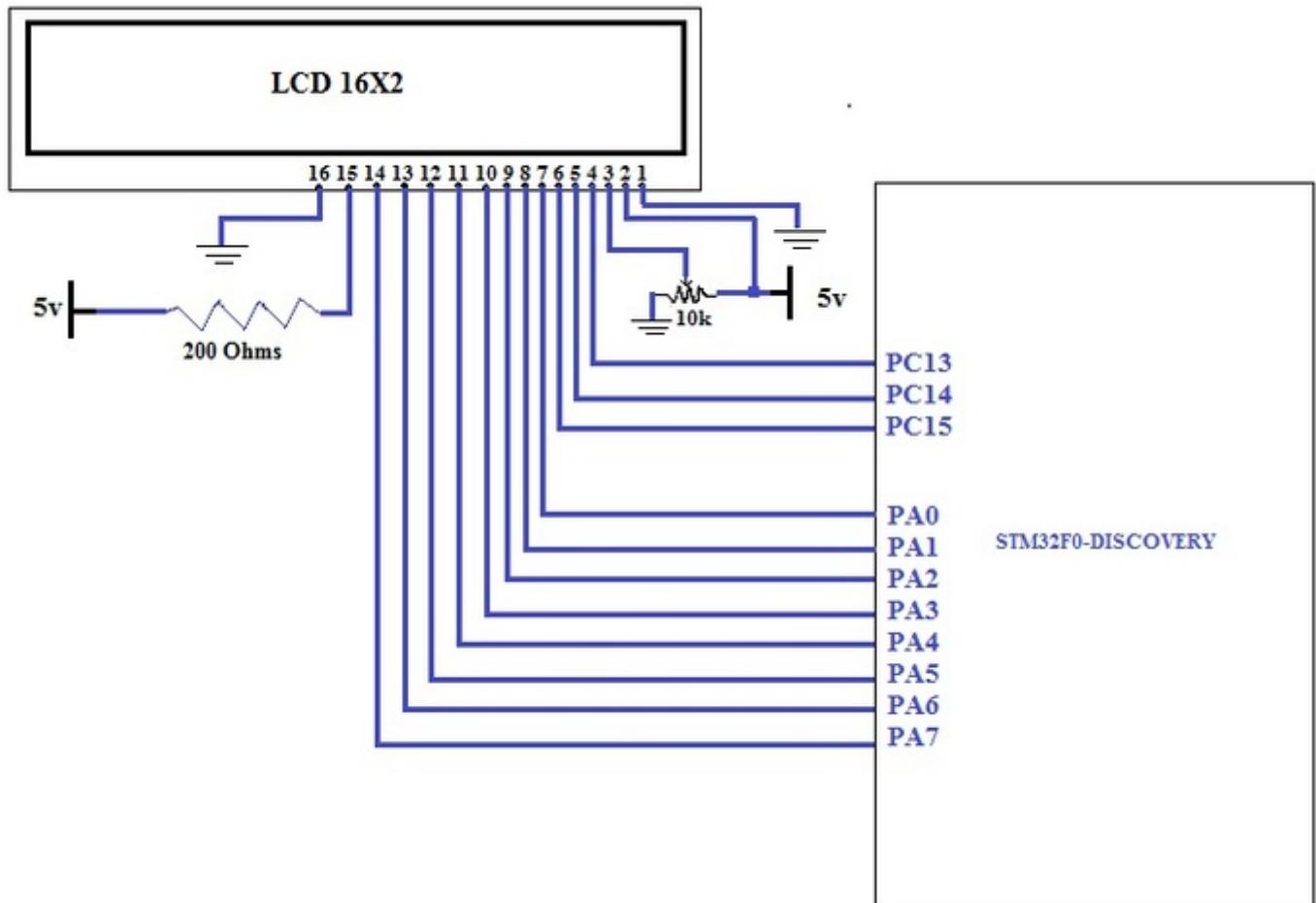
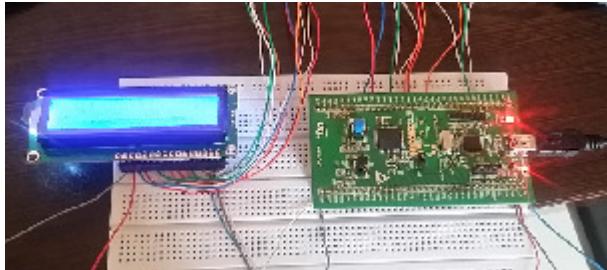


hi

i want show a text in LCD and i use LCDTS1620A-21 and stm32f0discovery



and this is my code

```
#include "stm32f0xx.h"
uint32_t TickValue=0;

#define RS GPIO_BRR_BR_13 // RS is named as Port 13
#define RW GPIO_BRR_BR_14 // RW is named as Port 14
#define EN GPIO_BRR_BR_15 // EN is named as Port 15

void initgpio()
{
    RCC->AHBENR |= RCC_AHBENR_GPIOCEN;
    RCC->AHBENR |= RCC_AHBENR_GPIOAEN;

    GPIOC->MODER |= (GPIO_MODE_OUTPUT_PP_UP | GPIO_MODE_OUTPUT_PP_UP);
    GPIOC->OSPEEDR |= (GPIO_OSPEEDER_OSPEEDR13 | GPIO_OSPEEDER_OSPEEDR14 | GPIO_OSPEEDER_OSPEEDR15);
    GPIOC->OTYPER &= ~(GPIO_OTYPER_OT_13 | GPIO_OTYPER_OT_14 | GPIO_OTYPER_OT_15);
    // GPIOC->PUPDR &= ~(GPIO_PUPDR_PUPDR13 | GPIO_PUPDR_PUPDR14 | GPIO_PUPDR_PUPDR15);

    GPIOA->MODER |= (GPIO_MODE_OUTPUT_PP_UP | GPIO_MODE_OUTPUT_PP_UP | GPIO_MODE_OUTPUT_PP_UP);
}
```

```
GPIO_MODER_MODER3_0 | GPIO_MODER_MODER4_0 | GPIO_MODER_MODER5_0 | GPIO_MODER_MODER6_0 |
GPIO_MODER_MODER7_0) ;
GPIOA->OSPEEDR |= (GPIO_OSPEEDER_OSPEEDR0 | GPIO_OSPEEDER_OSPEEDR1 | GPIO_OSPEEDER_OSPEEDR2 |
GPIO_OSPEEDER_OSPEEDR3 | GPIO_OSPEEDER_OSPEEDR4 | GPIO_OSPEEDER_OSPEEDR5 |
GPIO_OSPEEDER_OSPEEDR6 | GPIO_OSPEEDER_OSPEEDR7);
GPIOA->OTYPER &= ~(GPIO_OTYPER_OT_0 | GPIO_OTYPER_OT_1 | GPIO_OTYPER_OT_2 | GPIO_OTYPER_OT_3 |
GPIO_OTYPER_OT_4 | GPIO_OTYPER_OT_5 | GPIO_OTYPER_OT_6 | GPIO_OTYPER_OT_7) ;
// GPIOA->PUPDR &= ~(GPIO_PUPDR_PUPDR0 | GPIO_PUPDR_PUPDR1 | GPIO_PUPDR_PUPDR2 |
// GPIO_PUPDR_PUPDR3 | GPIO_PUPDR_PUPDR4 | GPIO_PUPDR_PUPDR5 | GPIO_PUPDR_PUPDR6 |
GPIO_PUPDR_PUPDR7);

}

void s_init()
{
GPIOC->BRR=RS;
GPIOC->BRR=RW;
}

void s_data()
{
GPIOC->BSRR=RS;
GPIOC->BRR=RW;
}

void delay_ms(uint32_t n_ms)
{
SysTick_Config(8000*3 - 30);
TickCount = n_ms;
while(TickCount == n_ms)
;
SysTick_Config(8000*3);
while(TickCount != 0)
;
}

void s_latch()
{
GPIOC->BSRR=EN;
delay_ms(10);
GPIOC->BRR=EN;
delay_ms(10);
}

void TimingDelay_Decrement(void)
{
TickCount--;
}

int main(void)
{
int k=0;
char a[]="WWW.EEHERALD.COM";
char b[]="EMBEDDED SYSTEMS";

initgpio();
```

```
GPIOC->BRR=RS; //Initialize RS=0 for selecting instruction Send
GPIOC->BRR=RW; // Select RW=0 to write Instruction/data on LCD
GPIOC->BSRR=EN; // EN=1 for unlatch. (used at initial condition)

delay_ms(10);

s_init(); //Call Instruction Select routine
GPIOA->ODR=0x0001; // Clear Display, Cursor to Home
s_latch(); //Latch the above instruction
GPIOA->ODR=0x0038; // Display Function (2 rows for 8-bit data; small)
s_latch(); //Latch this above instruction 4 times
s_latch();
s_latch();
s_latch();
s_latch();
GPIOA->ODR=0x000E; // Display and Cursor on, Cursor Blink off
s_latch(); //Latch the above instruction
GPIOA->ODR=0x0010; // Cursor shift left
s_latch(); //Latch the above instruction
GPIOA->ODR=0x0006; // Cursor Increment, Shift off
s_data(); //Change the input type to Data.(before it was instruction input)
s_latch(); //Latch the above instruction

for(k=0;a[k];k++)
{
    GPIOA->ODR=a[k]; //It will send a[0]='P' as = '0x0050' on Port A.
    s_latch(); //Latch the above instruction only once. Or it will clone each character twice if you
latch twice.
}
GPIOC->BRR=RS; //Initialize RS=0 for selecting instruction Send
GPIOC->BRR=RW; // Select RW=0 to write Instruction/data on LCD
GPIOC->BSRR=EN; // EN=1 for unlatch. (used at initial condition)

delay_ms(10);
GPIOA->ODR=0x00C0; // Move cursor to beginning of second row
s_latch(); //Latch the above instruction
s_data(); //Change the input type to Data.(before it was instruction input)
for(k=0;b[k];k++)
{
    GPIOA->ODR=b[k]; //It will send b[0]='E' as = '0x0044' on Port A.
    s_latch(); //Latch the above instruction only once. Or it will clone each character twice if you
latch twice.
}
s_init();

}
```

but dont work :(((((((

plz help me

i am a beginnerrrrrrrr