#include "stm32f4xx\_hal.h"

UART\_HandleTypeDef huart2;

void SystemClock\_Config(void);

static void MX\_GPIO\_Init(void);

static void MX\_USART2\_UART\_Init(void);

uint8\_t rxData;

char txData[30] = "";

int main(void) {

HAL\_Init();

SystemClock\_Config();

MX\_GPIO\_Init();

MX\_USART2\_UART\_Init();

while (1) {

HAL\_UART\_Receive(&huart2, &rxData, 1, 100);

if(rxData == '1') {

HAL\_GPIO\_WritePin(GPIOA, GPIO\_PIN\_5, GPIO\_PIN\_SET);

} else if(rxData == '0') {

HAL\_GPIO\_WritePin(GPIOA, GPIO\_PIN\_5, GPIO\_PIN\_RESET);

}

if(HAL\_GPIO\_ReadPin(GPIOC, GPIO\_PIN\_13) == GPIO\_PIN\_RESET) {

HAL\_UART\_Transmit(&huart2, (uint8\_t\*)txData, strlen(txData), 100);

}

}

}