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| /\*  \* GccApplication1.c  \*  \* Created: 11/15/2018 8:07:42 AM  \* Author : ucrcse  \*/ #include <avr/io.h> #include "usart.h" #include "lcd.h" int **main**(void) {  // LCD Control  DDRA = 0xFF; PORTA = 0x00; // LCD data lines  DDRC = 0xFF; PORTC = 0x00; // LCD control lines  // Gas Sensors  DDRB = 0x00; PORTB = 0xFF; // PORTB input  // LED Alert  DDRD = 0xFF; PORTD = 0x00; // PORTD output  PORTD = 0xFF;    char Data\_in;    // Initialize USART0  initUSART(0);  // Initializes the LCD display  LCD\_init();    /\*  // Starting at position 1 on the LCD screen, writes Hello World  LCD\_DisplayString(1, "Hello World");  \*/    while(1)  {  if (USART\_HasReceived(0))  {  Data\_in = USART\_Receive(0);  if (Data\_in == '1')  {  PORTB |= (1<<PB0);  if(USART\_IsSendReady(0))  {  USART\_Send(Data\_in, 0);  }  LCD\_DisplayString(1, Data\_in);  }  else  {  PORTB |= ~(1<<PB0);  if(USART\_IsSendReady(0))  {  USART\_Send(Data\_in, 0);  }  LCD\_DisplayString(1, Data\_in);  }  }    } } |