Project : Mohannad Mohammed Yehia ALEX 20

Introduction:

There is two microcontrollers that communicate between each other by SPI , the first microcontroller receive data from a Bluetooth module by UART and this is the master that will send the received data from the UART to the slave microcontroller then it will starts to do the action by which the data is defined .

The slave microcontroller is connected with a LCD and 3 leds.

When the data entered is

- *A* then LED0 will be on and the LCD will write LCD0_ON
- *a* then LED0 will be on and the LCD will write LCD0_ON
- *F*then LED1 will be on and the LCD will write LCD1_ON
- *f*then LED1 will be off and the LCD will write LCD1_OFF
- *U*then LED2 will be on and the LCD will write LCD2_ON
- *u* then LED2 will be off and the LCD will write LCD2_OFF
- Words so the LCD will write what it receive but the leds wont work .

Problems and solving :

At first SPI communication didn’t work , as there was a delay used that let he SPI wont work after removing the delay it works .The LCD and leds didn’t work that because the master didn’t let the data received equals the data that will be send after letting the data received equals data send the LCD and led worked successfully