

```
Received Data()
 if (RX_Data[0] == IDENTITY_BYTE) {
 if (RX Data[1] == START BYTE) {
   unsigned char temp = RX CHECKSUM(RX Data[2], RX Data[3],
RX_Data[4]);
   if ((RX_Data[5] == temp) && (RX_Data[6] == END_BYTE)) {
    Rx_012Bit(&RX_Data[2]);
    Rx_345Bit(&RX_Data[2]);
                                 if(RX_Data[4]>=3)
                                         (PORT3 PIN4=0);
                                 else
                                         (PORT3 PIN4=1);
             }
         }
    }
}
```

"count" value based on timer

```
Timer Interrupt

void timer0_isr() interrupt 1 {
   TH0 = 0x4B;
   TL0 = 0xFD;
   count++;
  }
```

"RX_Index" value based on uart interrupt

```
Uart Interrupt
void serial_isr() interrupt 4 {
  unsigned char receivedChar;
  if (RI == 1) {
    RI = 0; // Clear the Receive interrupt flag
    receivedChar = SBUF;
    //if (RX_Index >= 6) RX_Index=0;
    //RX_Data[RX_Index++] = receivedChar;
    if (RX_Index >= RST_RX_Index) RX_Index = 0;
    else {
        RX_Data[RX_Index++] = receivedChar;
        if (RX_Data[0] != 0xA5) RX_Index = 0;
    }
}
```

```
Transmit Data()

TX_Data[0] = IDENTITY_BYTE;

TX_Data[1] = START_BYTE;

TX_Data[2] = ~P0;

TX_Data[3] = ~P2;

TX_Data[4] = TX_CHECKSUM(TX_Data[2],

TX_Data[3]);

TX_Data[5] = END_BYTE;

Tx_char(TX_Data[0]);

Tx_char(TX_Data[1]);

Tx_char(TX_Data[2]);

Tx_char(TX_Data[3]);

Tx_char(TX_Data[4]);

Tx_char(TX_Data[4]);

Tx_char(TX_Data[5]);
```