

Application: Liquid level control application.

The dip switch are the inputs. (4 inputs)

Based on the different combinations of the 4 inputs from the dip switch, I trigger an output on pin number 10.

The output needs to trigger a 5V relay, The output is also indicated by LED1.

Please find my code on the next page.

The logic works fine. But after a couple of hours, I get no output. (Hanged)

This product needs to go out for production. Please help me resolve the issue.

Thanks.

Please find my code on the next page.

```
#include <htc.h>
#include<pic.h>
// To reverse the logic of DIP switch
#define HIGH
#define LOW
                          1
#define S1
                 RA2
#define S2
                 RA3
#define S3
                 RA1
#define S4
                 RA0
#define LED
                 RB4
#define GROUND_TANK_EMPTY
                                  (S1 == LOW && S2 == LOW)
#define GROUND_TANK_FULL
                                  (S1 == HIGH && S2 == HIGH)
#define UPPER_TANK_EMPTY
                                  (S3 == LOW && S4 == LOW)
#define UPPER_TANK_FULL
                                  (S3 == HIGH && S4 == HIGH)
void main()
{
        unsigned char motor_status;
        TRISA = 0x0F;
        TRISB = 0x00;
        PORTA = PORTB = 0x00;
        motor\_status = 0;
        while(1)
        {
                 if (motor_status == 0) {
                          if (GROUND_TANK_FULL && UPPER_TANK_EMPTY) {
                                  motor_status = 1;
                                  LED = 1;
                         }
                 }
                 else {
                          if (GROUND_TANK_EMPTY II UPPER_TANK_FULL) {
                                  motor_status = 0;
                                  LED = 0;
                          }
                 NOP();
        }
```