1. ORG 0000h

Loop: MOV p0, #01H

ACALL Delay

MOV p0, #0H

ACALL Delay

SJMP Loop

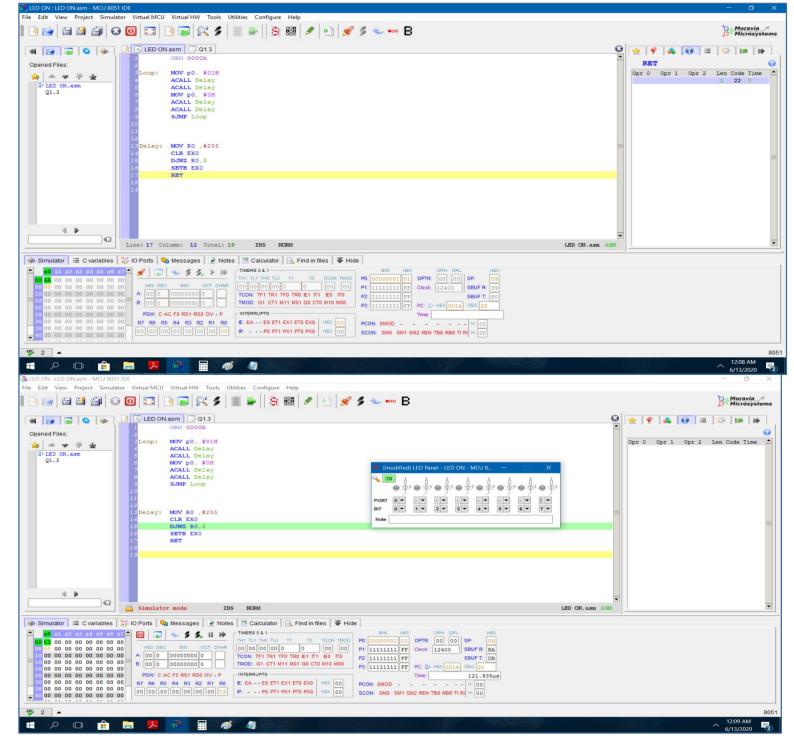
Delay: MOV R1, #015h

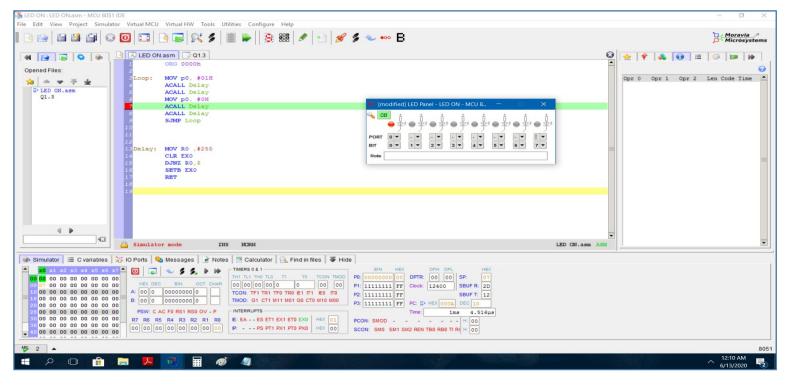
MOV R0, #0F4h

DJNZ RO, \$

DJNZ R1, \$-4

RET





3. ORG 0000h

Loop: MOV p0,#01H

ACALL Delay

MOV p0,#0H

ACALL Delay

SJMP Loop

Delay: MOV TMOD,#00001000B

MOV TL1,#0A3H

MOV TH1,#0D7H

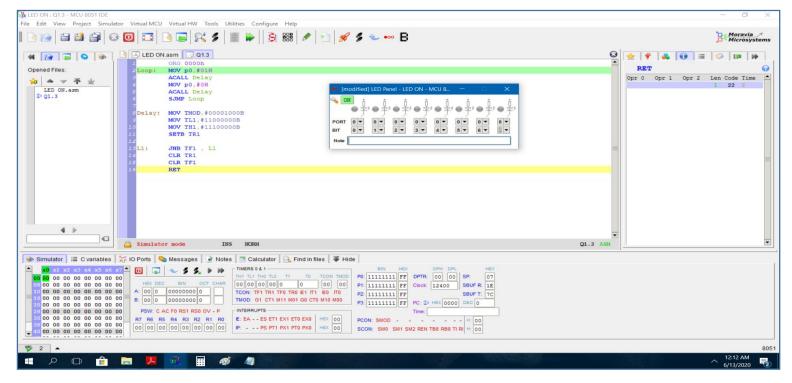
SETB TR1

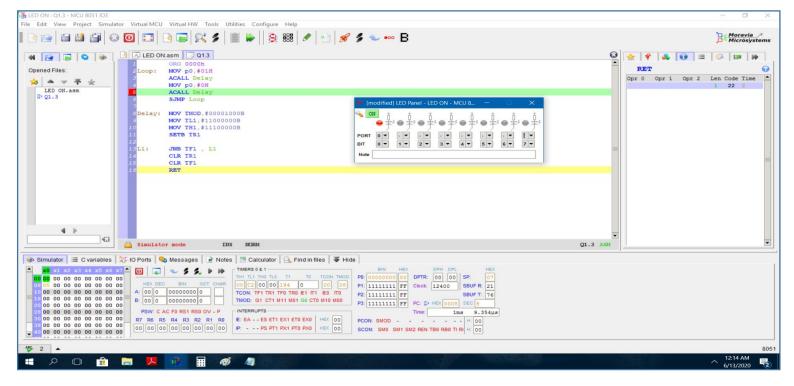
L1: JNB TF1, L1

CLR TR1

CLR TF1

RET





Task 02

ORG 0000H

L1: JNB

ORG 0003H

START

LCALL INTERRUPT

ORG 0010H

MOV TMOD, #00000110B

START: SETB P0.0

SETB TRO

MAIN:

SETB PO.C

MOV TH0, #0FBH

MOV TL0, #0F7H

JNB TF0, L1

INTERRUPT:

CLR P0.0

CLR TRO

MOV R1, #006h

MOV R0, #0AAh

DJNZ R0, \$

DJNZ R1, \$-4

SETB PO.0

RET

Task 3

1)

ORG 0000H

MOV A,#'I'

ACALL Display

MOV A,#'S'

ACALL Display

MOV A,#'H'

ACALL Display

MOV A,#'A'

ACALL Display

MOV A,#'R'

ACALL Display

MOV A,#'A'

ACALL Display

Display: MOV P1,A

SETB P3.5

CLR P3.4

SETB P3.3

CLR P3.3

MOV R3,#0

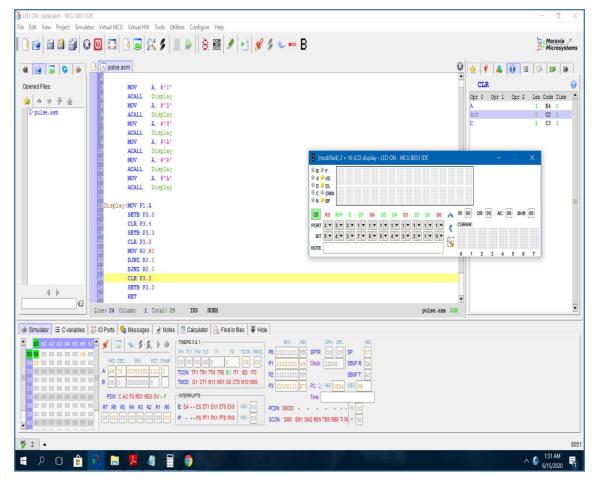
DJNZ R3,\$

DJNZ R3,\$

CLR P3.3

SETB P3.3

RET



ORG 0000H

START: MOV P0,#00000011B

ACALL DELAY

MOV P0,#10011111B

ACALL DELAY

MOV P0,#01000101B

ACALL DELAY

MOV P0,#00001101B

ACALL DELAY

MOV P0,#10011001B

ACALL DELAY

MOV P0,#00101001B

ACALL DELAY

MOV P0,#00100001B

ACALL DELAY

MOV P0,#10001111B

ACALL DELAY

MOV P0,#0000001B

ACALL DELAY

MOV P0,#10001001B

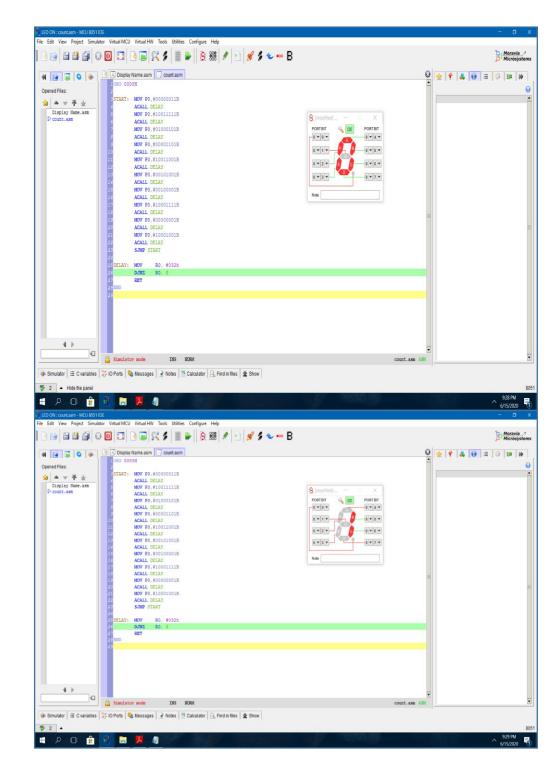
ACALL DELAY

SJMP START

DELAY: MOV R0, #032h

DJNZ RO, \$

RET



Task 4

// Here the motor is Starts after Port 3 pin 2 is switched.

//The signel goes to a Electric switch, then ignites high tention current.

//Manual switch is assumed as bounce back switch.

//After 20m the motor is automatically turne off.

//20m is the time taken to fill the tank.

ORG 0000H

JB P3.2,\$; Switch Control

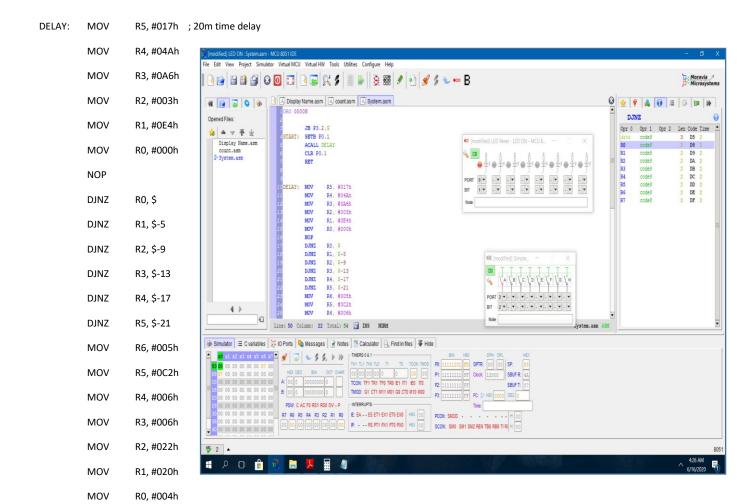
START: SETB P0.1

ACALL DELAY

CLR PO.1

CLR P3.2

RET



NOP

DJNZ RO, \$

DJNZ R1, \$-5

DJNZ R2, \$-9

DJNZ R3, \$-13

DJNZ R4, \$-17

DJNZ R5, \$-21

DJNZ R6, \$-25

MOV R3, #00Ah

MOV R2, #0EDh

MOV R1, #01Dh

MOV R0, #01Bh

NOP

DJNZ RO, \$

DJNZ R1, \$-5

DJNZ R2, \$-9

DJNZ R3, \$-13

MOV R1, #002h

MOV R0, #0DFh

NOP

DJNZ RO, \$

DJNZ R1, \$-5

RET