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;DATE:25/4/25 11:20:48

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ORG 0000H

;SEVEN SEGMENT TIMER ROUTINE

;SEVEN SEGMENT DEFAULT ROUTINE

;LED;ON OFF ROUTINE

;STEPPER MOTOR ROUTINE

;SEVEN SEGMENT FOR P0

;LEDS- P1.0&P1.1

;STEPPER-P2.0-P2.3

;POLL PORT P3.0&P3.1

;MAIN ROUTINE

SETB P1.0

SETB P1.1

CLR P3.0;CONFIGURE FOR POLL PORT 1\_INCOMMING\_S

CLR P3.1;CONFIGURE FOR POLL PORT 2\_OUTGOING\_

;DISPLAY 0

PORT1:

MOV P0,#3FH

JNB P3.0,PORT1

CLR P1.1;RED GLOW

ACALL stepper\_role1

ACALL TIMERSEGMENT

JNB P3.1,PORT1;CHECK IF SECOND SENSOR IS TRIGGERED OR NOT , ELSE MOVE TO PORT1 LABEL

SETB P1.1;RED OFF

ACALL stepper\_role2

CLR P1.0;FOR GREEN LED

ACALL DELAY\_2S

SETB P1.0

MOV P0,#3FH;FALLBACK

SJMP PORT1

TIMERSEGMENT:

MOV P0, #6FH ; 9

ACALL DELAY1S

MOV P0, #7FH ; 8

ACALL DELAY1S

MOV P0, #07H ; 7

ACALL DELAY1S

MOV P0, #7DH ; 6

ACALL DELAY1S

MOV P0, #6DH ; 5

ACALL DELAY1S

MOV P0, #66H ; 4

ACALL DELAY1S

MOV P0, #4FH ; 3

ACALL DELAY1S

MOV P0, #5BH ; 2

ACALL DELAY1S

MOV P0, #06H ; 1

ACALL DELAY1S

MOV P0, #3FH ; 0

ACALL DELAY1S

RET

stepper\_role1:

MOV R0,#004

MOV A,#88H

Loop5: MOV R1,#250

Loop1:MOV P2,A

ACALL DELAY\_stepper

Rl A

DJNZ R1,Loop1

DJNZ R0,Loop5

RET

stepper\_role2:

MOV R0,#004

MOV A,#11H

Loop6: MOV R1,#250

Loop7:MOV P2,A

ACALL DELAY\_stepper

RR A

DJNZ R1,Loop7

DJNZ R0,Loop6

RET

DELAY1S:

MOV R0,#20

MOV TMOD,#10H

L12:

MOV TH1,#3CH

MOV TL1,#0B0H

SETB TR1

HERE11: JNB TF1,HERE11

CLR TR1

CLR TF1

DJNZ R0,L12

RET

DELAY\_2S:

MOV R0,#40

MOV TMOD,#10H

L13:

MOV TH1,#3CH

MOV TL1,#0B0H

SETB TR1

HERE22: JNB TF1,HERE22

CLR TR1

CLR TF1

DJNZ R0,L13

RET

DELAY\_stepper:

MOV R2 ,#0ABH

Loop4:MOV R3 ,#11H

Loop3:DJNZ R3,Loop3

DJNZ R2,Loop4

RET

END