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; NAME: LUNGADE KIRAN SANJAY

; ROLL NO :39

; BATCH: S2

; TITLE :8051 MICROCONTROLLER INTERFACING WITH LCD
,*****PROGRAM*****

RS EQU P3.2

EN EQU P3.3

LCD EQU P0

ORG 00H

SJMP MAIN

ORG 40H

MAIN: MOV A, #38H          ; INTI LCD 2 LINES 5X7 MATRIXS
ACALL COMMAND             ; CALL CIMMAND SUBROUTINE
MOV A, #0EH               ; DISPLAY ON CURSOR ON
ACALL COMMAND MOV A, #01H; CLEAR LCD ACALL COMMAND
MOV A, #06H               ; SHIFT CURSOR RIGHT
ACALL COMMAND MOV A, #80H; FORCE CURSOR TO BEGING TO 1ST LINE
ACALL COMMAND
MOV A, #'S'
ACALL DATAWR
MOV A, #'R'
ACALL DATAWR
MOV A, #'E'
ACALL DATAWR
MOV A, #'S'
ACALL DATAWR
HERE:
        SJMP HERE          ; STAY HERE

COMMAND:
        CLR RS              ; RS=0 TO SELECT COMMAND REGISTER
        SETB EN             ; EN=1 HIGH TO LOW PULSE

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        ; INTERNAL LATCH OF LCD
MOV LCD, A
CLR EN
ACALL DELAY
RET
DELAY:
        MOV R2, #50
ABC:
        MOV R3, #255
XYZ:
        DJNZ R2, ABC
        RET
DATAWR:
        SETB RSSETB EN
MOV LCD, A
CLR EN
ACALL DELAY
RET
END
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