TITLE: Interface 8051 with LCD to display message

CODE:

org 0000h

mov a,#38H

lcall lcd\_write\_cmd ;setting the LCDR display

mov a,#08H

lcall lcd\_write\_cmd

mov a,#01H

lcall lcd\_write\_cmd

mov a,#06H

lcall lcd\_write\_cmd

mov a,#0fH

lcall lcd\_write\_cmd

mov a,#80H

lcall lcd\_write\_cmd

mov a,#'H' ;input data letter by letter

lcall lcd\_write\_data

mov a,#'E'

lcall lcd\_write\_data

mov a,#'L'

lcall lcd\_write\_data

mov a,#'L'

lcall lcd\_write\_data

mov a,#'O'

lcall lcd\_write\_data

mov a,#' '

lcall lcd\_write\_data

mov a,#'A'

lcall lcd\_write\_data

mov a,#'L'

lcall lcd\_write\_data

mov a,#'L'

lcall lcd\_write\_data

mov a,#' ' ;input data letter by letter

lcall lcd\_write\_data

mov a,#'S'

lcall lcd\_write\_data

mov a,#'T'

lcall lcd\_write\_data

mov a,#'U'

lcall lcd\_write\_data

mov a,#'D'

lcall lcd\_write\_data

mov a,#'S'

lcall lcd\_write\_data

HERE:SJMP HERE

lcd\_write\_cmd: mov P0,a

lcall delay

SETB P3.3

lcall delay

mov P3,#00H

lcall delay

ret

lcd\_write\_data: mov P0,a

lcall delay

SETB P3.2

SETB P3.3

lcall delay

mov P3,#00H

lcall delay

ret

delay: mov r4,#0ffH

;mov r5,#0ffH

loop: ;djnz r5,loop

djnz r4,loop

ret