**Drunk & Drive Preventer**

**Abstract:**

The system provides a distinctive method to catch having drunk alcohol. The system has an Mq-3 sensor which detects alcohol. It is easy to detect alcohol. Alcohol detection system contingent on emit breath analysis has been created using microcontroller. The system consists of a MQ-3 sensor, a Microcontroller to manage the sensor unit and communicate data, and a data cloud system.

KEY-WORD: - Microcontroller 89s52, LCD, MQ-3 Gas Sensor, Buzzer.

**Code :**

Sensor EQU P1.5

BUZ EQU P0.7

led EQU P2.1

lcd equ P3 ;LCD connected to Port3

en equ P2.7 ;Enable connected P2.2

rw equ P2.6 ;read write

rs equ p2.5 ;register select

ORG 0000H

SETB Sensor //Set Switch P1.5 high

mov a,#38h ;Initialise LCD 2 lines and 5 x 7 matrix D0-D7, 8bit

acall command ;call command subroutine

mov a,#0eh ;to turn on the display & Cursor,

acall command ;call command subroutine

k3:mov a,#01h ;clear display Screen

acall command ;call command subroutine

mov a,#06h ;to shift cursor to left for next character

acall command ;call command subroutine

mov a,#80h ;to display from initial on line 1

acall command ;call command subroutine

L1: mov a,#01h ;clear display Screen

acall command ;call command subroutine

MOV C, Sensor //MOV Content of SW in C Register

Jc C1 //if carry go to C1

JnC C2 //else call C2

SJMP L1 //jump to L1

C1: clr led //Turn on Relay

clr BUZ //TURN ON BUZZER

mov a,#01h ;clear display Screen

acall command ;call command subroutine

SJMP L1 //jump to L1

C2:setb led // Turn off Relay

setb BUZ // Turn off Buzzer

mov a,#'A' ;Ascii Word 'W' mov to Display

acall display

mov a,#'L' ;Ascii Word 'E' mov to Display

acall display

mov a,#'C' ;Ascii Word 'L' mov to Display

acall display

mov a,#'O' ;Ascii Word 'C' mov to Display

acall display

mov a,#'H' ;Ascii Word 'O' mov to Display

acall display

mov a,#'O' ;Ascii Word 'M' mov to Display

acall display

mov a,#'L' ;Ascii Word 'E' mov to Display

acall display

mov a,#0c0h ;to display from initial on line 1

acall command ;call command subroutine

mov a,#'D'

acall display

mov a,#'E'

acall display

mov a,#'T'

acall display

mov a,#'E'

acall display

mov a,#'C'

acall display

mov a,#'T'

acall display

mov a,#'E'

acall display

mov a,#'D'

acall display

ACALL delay ;give LCD some time

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SJMP L1 //jump to L1

command: MOV lcd,A ;copy reg A to P1

CLR rs ;RS=0 for command

CLR rw ;R/W=0 for write

SETB en ;E=1 for high pulse

ACALL delay ;give LCD some time

CLR en ;E=0 for H-to-L pulse

RET

display: MOV lcd,A ;copy reg A to port 1

SETB rs ;RS=1 for data

CLR rw ;R/W=0 for write

SETB en ;E=1 for high pulse

ACALL delay ;give LCD some time

CLR en ;E=0 for H-to-L pulse

RET

;................delay subroutine...................................

delay: mov r2,#0ffh

ag1: mov r3,#0ffh

ag2: nop

djnz r3,ag2

djnz r2,ag1

RET

END