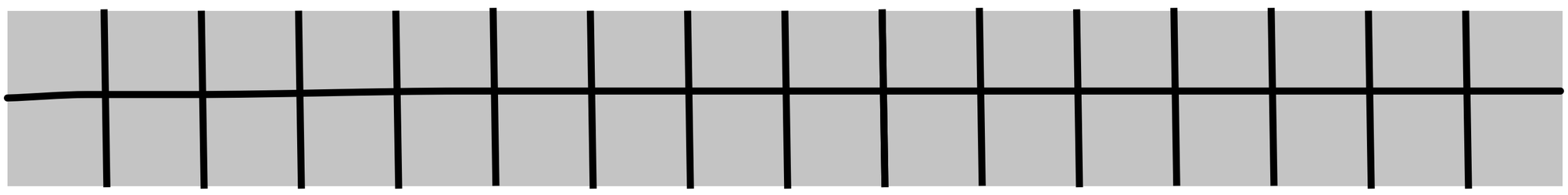
lecture 8



FUNCTIONS TO WORK WITH LCD

lcd_init(); => to initialize the LCD
lcd_char('A'); => to print character
lcd_s("HELLO"); => to print string
lcd_cmd(0x01); => to clear screen
lcd_3d(123); => to print number { 123 }
lcd_3d(023); => to print number { 23 }
lcd_3d(003); => to print number { 3 }
led_4d(1234); => to print up to 4 digit number { 1234 }
led_xy(0,0) => to set location of cursor.
led_decimal(12.23); => will show { 12.23 }
led_decimal(1.3); => will show { 01.30 }

PINS

PB.1 - R/W
PB.2 - E
PB.3 - not connected
PB.4 - DL4
....
....
PB.7 - DL7

1

LCD

count: 000

PINS

PC.0 SW1 --> count +

PC.1 SW2 --> count -

condition: 0 <= count <= 10

2

LCD

SONY ENTERPRISES
motor: anti-clockwise

PC.0 motor
PC.1 motor
PC.2 LED

PD.0 sw1 --> motor: clockwise
PD.1 sw2 --> motor: anti-clockwise
PD.2 sw3 --> motor: stop
PD.3 sw4 --> LED: glow
PD.4 sw5 --> LED: off

assignment 4

3

LCD

MAYA ELECTRONICS
Temp: 27°C NORMAL

PD.0 sw1 --> decrease temp -
PD.1 sw2 --> increase temp +
PD.2 sw3 --> START
PD.4 sw4 --> STOP

condition:

Ex. cool : temp <= 10
Cool : 11 <= temp <= 20
Normal : 21 <= temp <=29
Hotter : 30 <= temp <= 39
Ex. hot : temp >= 40

>>> Default temp. : 27°C

~ By K.S.