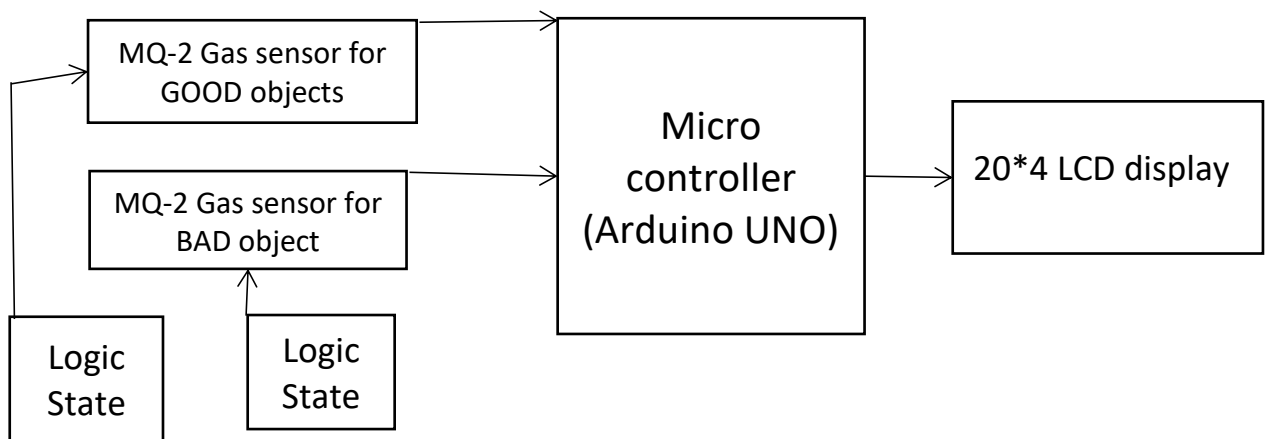


OBJECT COUNTER

Objective: Design a object counter and display details on a 20*4 LCD display ,use 2 push buttons for OK and BAD objects on LCD show Total objects ,OK objects and BAD objects.

Components Required: Arduino UNO,
20*4 LCD display,
MQ-2 Gas sensors,
24LC256 EEPROM,
Virtual Terminal,
Push buttons,
Power supply,
Ground

Block Diagram:



Description: Design an object counter using MQ-2 Gas sensors, and Arduino UNO Micro controller. And also using 20*4 LCD display module to display the total count , GOOD products count and BAD products count. Store the count in 24LC256 EEPROM, EEPROM is used to Retain data in case of power loss or restart. Detect good products and bad products, And display it on 20*4 LCD display.

INPUTS AND OUTPUTS:

S.NO	Description	Name	Type	Data Direction	Spec	Remarks
1	LCD Reset Pin	RS	OUT	DO	5vdc	Active High
2	LCD Enable Pin	E	OUT	DO	5vdc	Active High
3	LCD Data Pin 1	D4	OUT	DO	5vdc	Active High
4	LCD Data Pin 2	D5	OUT	DO	5vdc	Active High
5	LCD Data Pin 3	D6	OUT	DO	5vdc	Active High
6	LCD Data pin 4	D7	OUT	DO	5vdc	Active High
7	MQ-2 Gas Sensor1	OUT	INP	DI	5vdc	Active High
8	MQ-2 Gas Sensor2	OUT	INP	DI	5vdc	Active High

Flow Chart:

