Project Name :- Anti Drunk & Drive

Team Name :- 3 Idiots

Block Diagram :-

```
┌──────────────┐
│ Power Supply │
└──────────────┘

   (i/p)                                              (o/p)
┌──────────┐        ┌──────────┐        ┌──────────┐
│ Alcohol  │───────▶│ Arduino  │───────▶│  Alarm   │
│ (MQ3)    │        │  Uno     │        │ (Buzzer) │
│ Sensor   │        │  Board   │        └──────────┘
└──────────┘        └──────────┘
                                         ┌──────────┐
┌──────────┐                             │  Green   │  (o/p)
│  RED     │ (o/p)                       │   LED    │
│  LED     │                             └──────────┘
└──────────┘
```
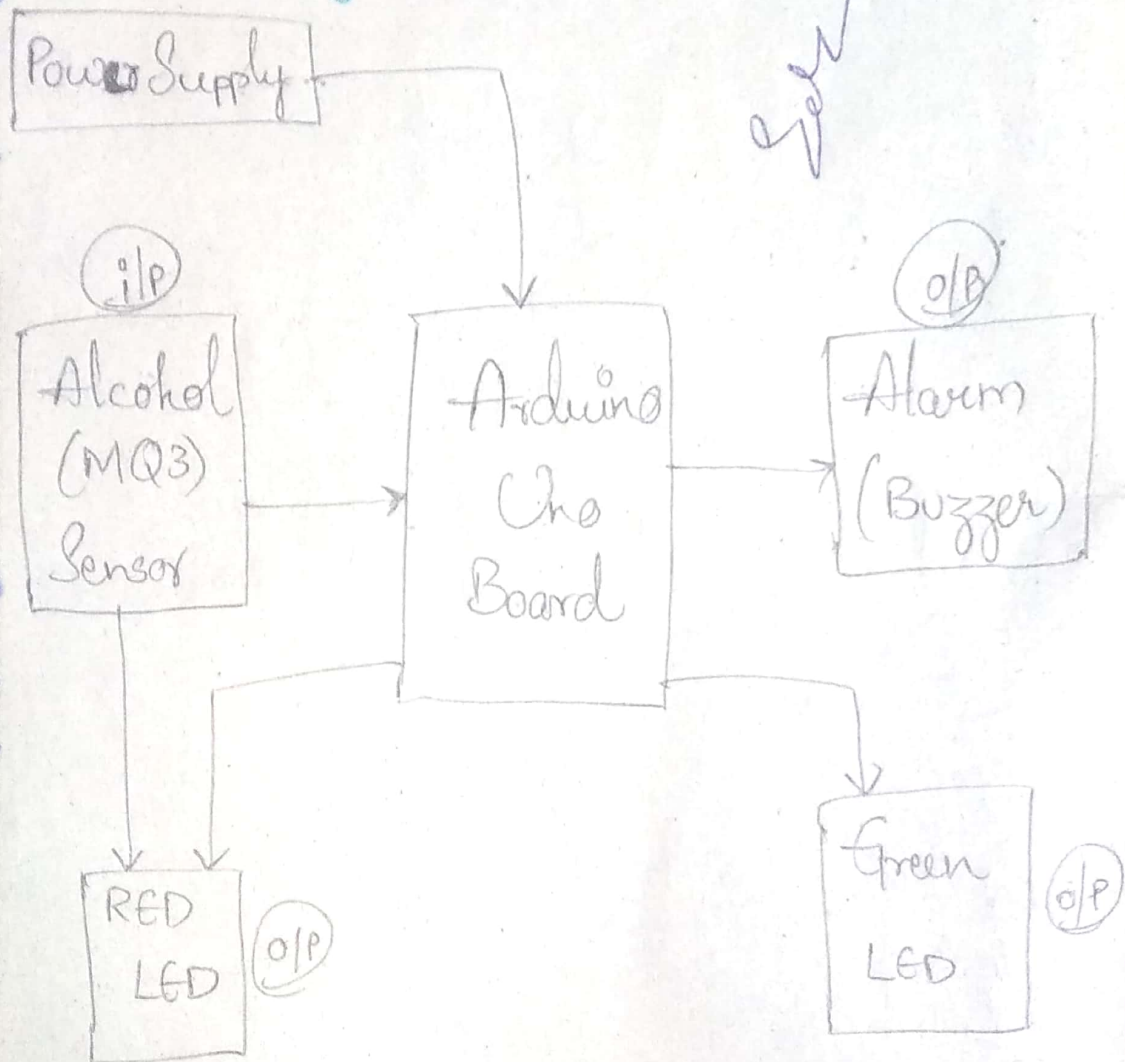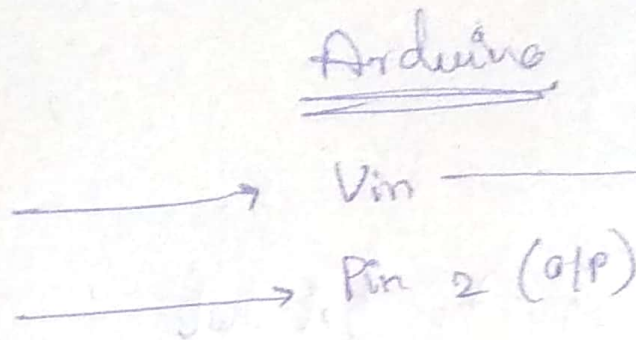
If "Alcohol detect" it on the Alarm (Buzzer) & RED LED.

If "alcohol not detected" then the GREEN LED is on & (Engine Starts) optional

Connections :—

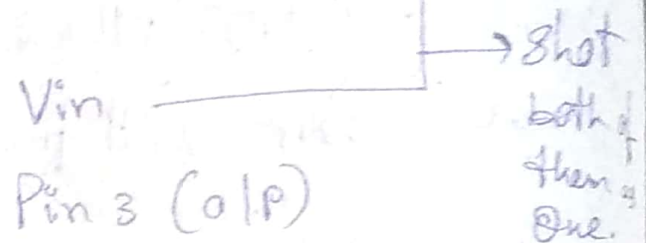| LED RED		Arduino

long Terminal + Resister   ⟶   Vin

Short Terminal   ⟶ Pin 2 (o/p)

LED GREEN

long Ter + Res   ⟶   Vin

Short Ter   ⟶   Pin 3 (o/p)

⟶ Shot both of them is One.

Buzzer

Short Pin (One pin)   ⟶   Pin 5 (o/p)

long Pin (another pin)   ⟶   5 V

Alcohol

DO   ⟶   Pin 7 (o/p)

GND   ⟶   GND

Vcc   ⟶   Vin

ANTI DRUNK AND DRIVE

Code :-

```
void setup( )
{
    pinMode (7, INPUT) ;  //alcohol
    pinMode (5, OUTPUT) ; // buzzer
    pinMode (2, OUTPUT); // red led
    pinMode(3, OUTPUT); // green led.

    Serial.begin (9600);
}

void loop( )
{
    if (digitalRead (7)==0)  //alcohol value detect.
    {
        digitalWrite(5,0);  // buzzer on
        digitalWrite (2,0);  // red led on
        digitalWrite (3,1);  // green led off

        Serial.println ("Alcohol detected");
        delay (1000);
    }
    else
    {
        digitalWrite (5,1) ; // buzzer off
        digitalWrite (2,1) ; // red off
        digitalWrite (3,0); // green led on

        Serial.println ("Alcohol not detected");
    }
}
```