

## SOURCE CODE OF PROJECT

```
#include<stdio.h>

#include <LiquidCrystal.h>

const int rs = 13, en = 12, d4 =11, d5 = 10, d6 = 9, d7 = 8;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

int eye =7;

int buzzer=A0;

int motor=3;

int acl = 4;

void setup() {

// put your setup code here, to run once:

pinMode(eye, INPUT);

pinMode(buzzer,OUTPUT);

pinMode(motor,OUTPUT);

pinMode(acl, INPUT);

digitalWrite(buzzer, LOW);digitalWrite(motor, HIGH);

lcd.begin(16,2);lcd.clear();lcd.print("DRIVER IMPAIRMENT");delay(100);

lcd.setCursor(0,1);lcd.print("REFLEX SYSTEM");delay(1000);

}

void loop() {

// put your main code here, to run repeatedly:

while(1)

{

int eyeval=digitalRead(eye);

if(eyeval==LOW)
```

```
{  
  
lcd.clear();lcd.print("EYE IS CLOSED");  
  
digitalWrite(buzzer,HIGH);digitalWrite(motor,LOW);  
  
delay(100);  
  
}  
  
else  
  
{  
  
lcd.clear();lcd.print("EYE IS OPEN");  
  
digitalWrite(buzzer,LOW);digitalWrite(motor,HIGH);  
  
delay(100);  
  
}  
  
int aclval = digitalRead(acl);  
  
if(aclval==LOW)  
  
{  
  
lcd.clear();lcd.print("ALCOHOL DETECT");lcd.setCursor(0,1);  
  
lcd.print("ALERT....");  
  
digitalWrite(buzzer,HIGH);  
  
delay(1000);  
  
}  
  
else  
  
{  
  
lcd.clear();lcd.print("NO ALCOHOL");  
  
digitalWrite(buzzer,LOW);  
  
delay(500);  
  
}  
  
}  
  
}
```