## Data Acquisition Mall Door

ID: 4715

Name: Ibrahim Mostafa Ibrahim Elshenhapy

Group: 3
Section: 1

## Arduino code

```
#include<LiquidCrystal.h>
LiquidCrystal lcd(12,11,10,9,8,7);
int ir=1,o=2,c=3,opening=4,closing=5;
void setup() {lcd.begin(16,2);
pinMode(opening,OUTPUT); pinMode(closing,OUTPUT);
pinMode(ir,INPUT); pinMode(o,INPUT); pinMode(c,INPUT);}
void loop() {
if(digitalRead(ir) &&!digitalRead(o)){digitalWrite(opening,HIGH);digitalWrite(closing,LOW);
lcd.clear();lcd.setCursor(1,0);lcd.print("Opening");}
else if (!digitalRead(ir) &&
!digitalRead(c)){digitalWrite(closing,HIGH);digitalWrite(opening,LOW);
lcd.clear();lcd.setCursor(1,0);lcd.print("Closing");}
else if (digitalRead(o) && digitalRead(ir)){digitalWrite(closing,LOW);digitalWrite(opening,LOW);
lcd.clear();lcd.setCursor(1,0);lcd.print("Fully Opened");}
else if (digitalRead(c) && !digitalRead(ir)){digitalWrite(closing,LOW);digitalWrite(opening,LOW);
lcd.clear();lcd.setCursor(1,0);lcd.print("Fully Closed");}
while (digitalRead(c) && digitalRead(o)){digitalWrite(closing,LOW);digitalWrite(opening,LOW);
lcd.clear();lcd.setCursor(1,0);lcd.print("Sensors Problem");}
}
```

