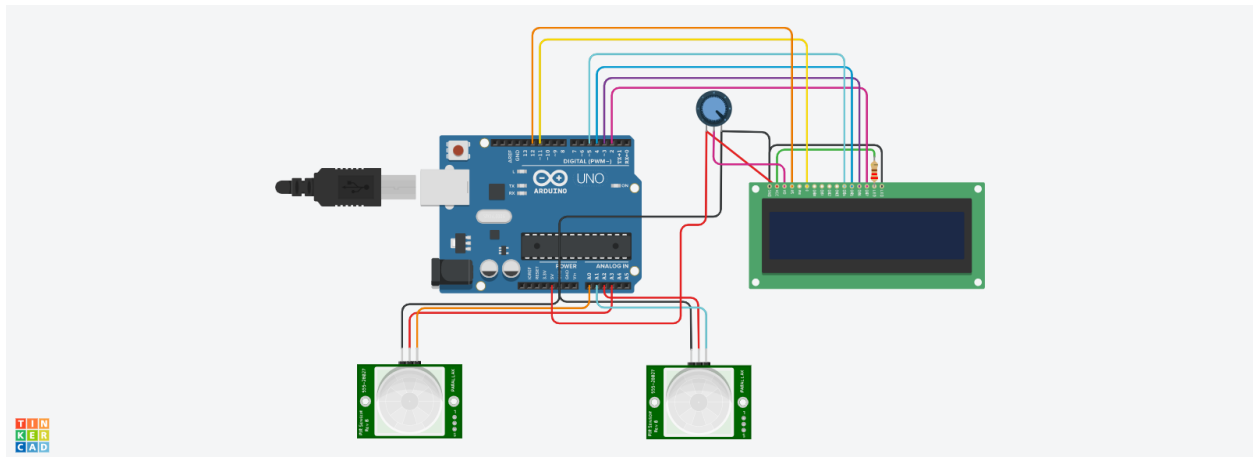


CIRCUIT DIAGRAM



SOURCE CODE

```
#include <LiquidCrystal.h>
```

```
int in = 15;
int inpr = 16;
int out = 14;
int outpr = 17;
int ppl = 0;
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
bool pi = 0;
bool po = 0;
void setup() {
  pinMode(15, INPUT);
  pinMode(14, INPUT);
  pinMode(16, OUTPUT);
  pinMode(17, OUTPUT);
  lcd.begin(16, 2);
}
```

```
void loop() {
  lcd.clear();
  digitalWrite(outpr, HIGH);
  digitalWrite(inpr, HIGH);
  pi = digitalRead( in );
  po = digitalRead(out);
  if (pi == 1) {
    ppl--;
    delay(500);
  } else if (po == 1) {
```

```
ppl++;  
delay(500);  
}  
ppl = constrain(ppl, 0, 50);  
lcd.setCursor(0, 0);  
lcd.print("PEOPLE IN:");  
lcd.setCursor(11, 0);  
lcd.print(ppl);  
if (ppl >= 20) {  
    lcd.setCursor(0, 1);  
    lcd.print("PLEASE WAIT");  
    delay(1000);  
}  
if (ppl <= 19) {  
    lcd.setCursor(0, 1);  
    lcd.print("PLEASE VISIT");  
    delay(1000);  
}  
}
```