```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#include<Servo.h>
Servo motor;
int ir = 10;
int ir1 = 8;
int ir2 = 9;
int led1 = 2;
int led2 = 3;
int led3 = 4;
LiquidCrystal_I2C lcd(0x27, 16, 2); // set the LCD address to 0x27
for a 16 chars and 2 line display
void setup() {
  lcd.init(); // initialize the lcd
  // Print a message to the LCD.
  lcd.init();
  lcd.backlight();
  lcd.setCursor(3,0);
  lcd.print("Count Down");
  pinMode(ir,INPUT);
  pinMode(ir1,INPUT);
  pinMode(ir2,INPUT);
  motor.attach(7);
  pinMode(led1,OUTPUT);
  pinMode(led2,OUTPUT);
   pinMode(led3,OUTPUT);

}

void loop() {


  if(digitalRead(ir) == LOW)
  {
    digitalWrite(led3,LOW);
    digitalWrite(led2,HIGH);
    digitalWrite(led1,HIGH);
```

```
   int count;
    for( count=20;count>=0;count--)
    {
      lcd.setCursor(3, 1);
       lcd.print("Time Left  ");
       lcd.setCursor(13, 1);
       lcd.print(count);
         delay(500);
          lcd.clear();
          lcd.setCursor(3, 0);
       lcd.print("Count Down");

    }
    lcd.clear();

}
else if(digitalRead(ir1) == LOW)
{
  lcd.clear();
  motor.write(115);
  digitalWrite(led2,LOW);
  digitalWrite(led3,HIGH);
  digitalWrite(led1,HIGH);
  lcd.setCursor(3, 0);
       lcd.print("GATE OPENED ");
  lcd.setCursor(5, 1);
  lcd.print("GO");

}
else if(digitalRead(ir2) == LOW)
{
  motor.write(10);
  digitalWrite(led2,HIGH);
  digitalWrite(led3,HIGH);
  digitalWrite(led1,LOW);
  lcd.clear();
  lcd.setCursor(3, 0);
```

```
        lcd.print("GATE CLOSED");
   lcd.setCursor(5, 1);
   lcd.print("STOP");
    delay(1000);

  }

}
```