

TEAM ID : NM2023TMID06779

PROJECT NAME: IOT based adaptive street light system

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

```
// initialize the library with the numbers of the interface pins
```

```
LiquidCrystal lcd(8, 9, 10, 11, 12, 13);
```

```
Int irPin = 2; // IR pin
```

```
Int LED = 3; // LED pin
```

```
Int buzzerPin = 4; //Buzzer pin
```

```
Int sensorOut = LOW; // Initialize
```

```
Void setup () {
```

```
// set up the LCD's number of columns and rows:
```

```
Lcd.begin(16, 2);
```

```
pinMode(irPin, INPUT);
```

```
pinMode(LED, OUTPUT);
```

```
pinMode(buzzerPin, OUTPUT);
```

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```
Serial.begin(9600);  
  
}  
  
Void loop() {  
  
sensorOut = digitalRead(irPin);  
  
if (sensorOut == LOW)  
  
{  
  
Serial.println("No Obstacle!");  
Lcd.clear();  
Lcd.print("No Obstacle!");  
  
digitalWrite(LED, LOW);  
digitalWrite(buzzerPin, LOW);  
  
}
```

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Else

{

Serial.println("Somebody there!");

Lcd.clear();

Lcd.print("Warning!");

Lcd.setCursor(0,1);

Lcd.print("Somebody there!");

digitalWrite(LED, HIGH);

digitalWrite(buzzerPin, HIGH);

}

Delay(200);

}