TEAM ID : NM2023TMID06775

PROJECT NAME: IOT BASED ADAPTIVE STREET LIGHTING 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);
 Serial.begin(9600);
```

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

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```
Lcd.print("Warning!");
Lcd.setCursor(0,1);
Lcd.print("Somebody there!");
digitalWrite(LED, HIGH);
digitalWrite(buzzerPin, HIGH);
}
Delay(200);
```

}