

Program no____6____

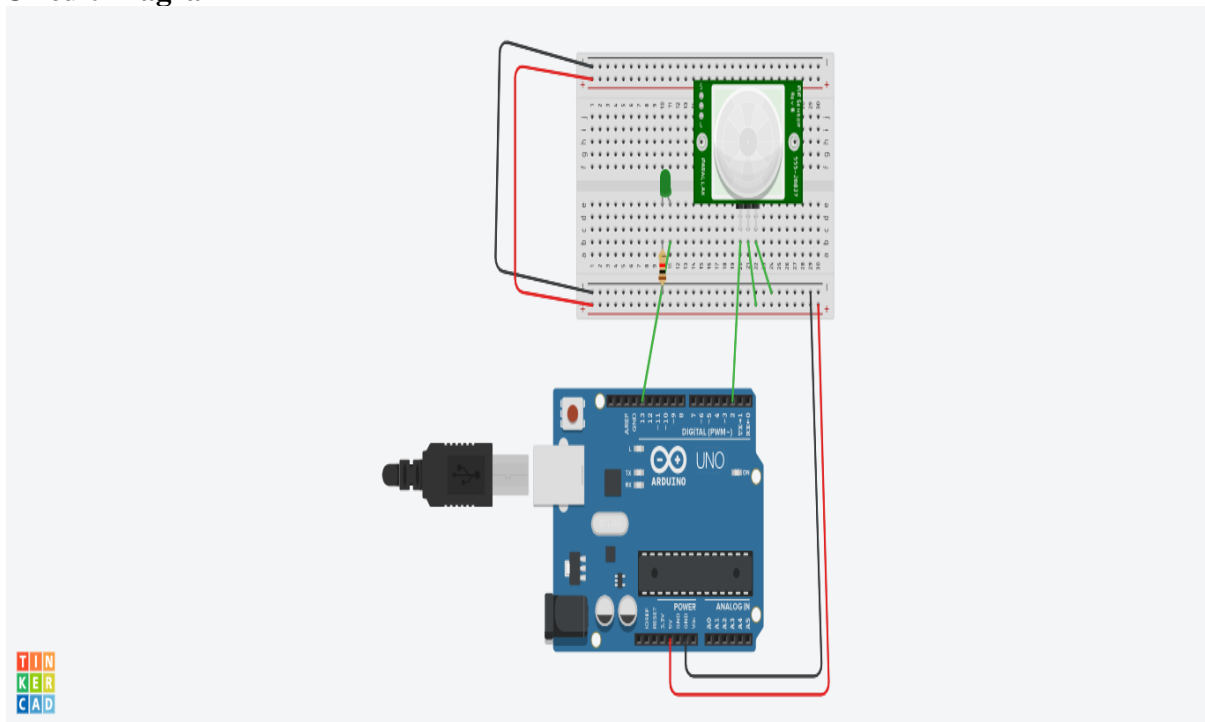
Program Title____PIR_____

Aim The lights turns on if there is any motion in the range

Hardware Required

- Arduino Board
- LED
- PIR sensor
- Resistor

Circuit Diagram



Code:

| Abhishek R IBM19CS400 | | Page No. Date / / |
|--|--|----------------------|
| <u>Program</u> <u>PIR</u> | | |
| <u>Code:</u> | | |
| <pre>int led = 13; int Sensor = 2; int State = low; int SensorState = 0; void setup() { pinMode(led, OUTPUT); pinMode(Sensor, INPUT); Serial.begin(9600); } void loop() { SensorState = digitalRead(Sensor); if (SensorState == HIGH) { digitalWrite(led, HIGH); delay(10); if (State == LOW) { Serial.println("Sensor activated!"); State = HIGH; } } else { digitalWrite(led, LOW); delay(10); if (State == HIGH) { Serial.println("Sensor deactivated"); State = LOW; } } }</pre> | | |

Abhishek R

Observation /Output

The lights turns on if there is any motion in the range

tinkercad.com/things/3S6U8vYe1Bl-1bm19cs400pir/editel

1BM19CS400_PIR

All changes saved

Simulator time: 00:00:44

Code Stop Simulation Export Share

1 (Arduino Uno R3)

PIR Sensor

| | |
|----------|---------|
| Name | 1 |
| Target X | -52.98 |
| Target Y | -202.74 |
| Target Z | -186.57 |
| Target Y | -203.70 |

```
1 int led = 13;
2 int sensor = 2;
3 int state = LOW;
4 int sensorState = 0;
5 void setup()
6 {
7   pinMode(led, OUTPUT);
8   pinMode(sensor, INPUT);
9   Serial.begin(9600);
10 }
11 void loop()
12 {
13   // read the state of the sensor/digital input
14   sensorState = digitalRead(sensor);
15   // check if sensor pin is HIGH. if it is, set the
16   // LED on.
```

Serial Monitor

Sensor activated!
Sensor deactivated!
Sensor activated!
Sensor deactivated!
Sensor activated!
Sensor deactivated!
Sensor activated!
Sensor deactivated!

Send Clear