**PIR automatic call security System**

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Introduction

Your property and assets are safest when they are protected by a security system. If there is a danger of getting detected, thieves are less inclined to harm your property. A great wireless home security system can both safeguard our homes and help us in our daily lives. Keep this in mind, in this article, we are making a PIR automatic call security System with the Help of Arduino

The PIR automatic call security System. They are frequently employed to provide a call to the owner of the house once someone inter in the house without permission. even though you are not around so at this time you can call emergence to check who is entering in the house.

The advantage of this system is that you can call emergence once . intruder enter in your without knew what happen

Hardware Components

You will require the following hardware for IOT security System all in one light

|  |  |  |
| --- | --- | --- |
| **Components** | **Value** | **Qty** |
| Arduino | – | 1 |
| PIR Sensor | HC-SR501 | 1 |
| Barphone | – | 1 |
| Lamp | \_ | 1 |
| Breadboard | – | 1 |
| Jumper wire | – | 1 |
| Relay module | \_ | 1 |

Schematic

Here I Make connections according to the circuit diagram given below.

Installing Arduino IDE

First, you need to install Arduino IDE Software from its official website. Here is a simple step-by-step guide on.

sketch

int barphone\_pin = 4;

int pin =5;

int val;

void setup(){

pinMode(pin,INPUT);

pinMode(barphone\_pin,OUTPUT);

}

void loop(){

val = digitalRead(pin);

if (val==0)

{

digitalWrite(barphone\_pin,LOW);

}

if (val==1)

{

digitalWrite(barphone\_pin,HIGH);

}}

The PIR Sensor is made up of two slots, both of which are composed of IR Sensitive materials. When there is no movement in the vicinity of the sensor, both slots in the Sensor detect the same quantity of infrared radiation.  When there is movement in front of the sensor, one of the slots interprets the radiation first, and the differential output between the two slots goes positive.  A motion is identified based on this output

Applications

Intruder protect at home

Home and office security

my video link:https://youtu.be/Ne56IKIxyQ8