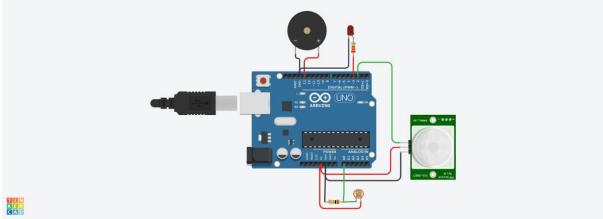
SMART HOME

Circuit:



Components Used:

- 1. Arduino UNO
- 2. Buzzer
- 3. LED
- 4. Resister 10Ω , 221Ω
- 5. PIR sensor
- 6. Photoresistor

Code:

```
int buzz = 13;
                       // the pin that the LED is atteched to
int sensor = 2;
                       // the pin that the sensor is atteched to
int state = LOW;
                         // by default, no motion detected
                     // variable to store the sensor status (value)
int val = 0;
int ldr=A0;//Set A0(Analog Input) for LDR.
int led = 3;
int value=0;
void setup() {
 pinMode(buzz, OUTPUT);
                                // initalize buzzer as an output
 pinMode(sensor, INPUT); // initialize sensor as an input
 pinMode(led,OUTPUT);
 Serial.begin(9600);
                         // initialize serial
void loop(){
 value=analogRead(ldr);//Reads the Value of LDR(light).
 Serial.println("LDR value is :");//Prints the value of LDR to Serial Monitor.
 Serial.println(value);
 val = digitalRead(sensor); // read sensor value
 if(value<250)
```

```
digitalWrite(led,HIGH);//Makes the LED glow in Dark.
 else
  digitalWrite(led,LOW);//Turns the LED OFF in Light.
 if (val == HIGH) {
                         // check if the sensor is HIGH
  digitalWrite(buzz, HIGH); // turn buzzer ON
  delay(500);
                       // delay 100 milliseconds
  if (state == LOW) {
   Serial.println("Motion detected!");
                     // update variable state to HIGH
   state = HIGH;
 else {
   digitalWrite(buzz, LOW); // turn buzzer OFF
                      // delay 200 milliseconds
   delay(500);
   if (state == HIGH){
    Serial.println("Motion stopped!");
    state = LOW;
                     // update variable state to LOW
  }
 }
}
```