

Government College Of Engineering,Bodinayakanur.

Name:T.Ambika

Team ID : PNT2022TMID49427

assignment:1

Topic:smart home application

Code:

```
int lightsensor = A0;
```

```
int pirsensor = 2;
```

```
int buzzer = 4;
```

```
int led=8;
```

```
void setup()
```

```
{
```

```
  pinMode(lightsensor, INPUT);
```

```
  pinMode(pirsensor, INPUT);
```

```
  pinMode(buzzer, OUTPUT);
```

```
  pinMode(led,OUTPUT);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop()
```

```
{
```

```
  lightsensor = analogRead(lightsensor);
```

```
  pirsensor = digitalRead(pirsensor);
```

```
  if (lightsensor < 700) {
```

```
    if (pirsensor == HIGH) {
```

```
      digitalWrite(led,HIGH);
```

```
      digitalWrite(buzzer,HIGH);
```

```
      delay(1000);
```

```
    } else {
```

```
      digitalWrite(buzzer, LOW);
```

```
      digitalWrite(led,LOW);
```

```
      delay(1000); //
```

```
    }
```

```
  } else {
```

```
    digitalWrite(buzzer, LOW);
```

```
    digitalWrite(led,LOW);
```

```
    Serial.println(lightsensor);
```

```
}
```

delay(1000);

}

Glorious Waasa

Simulator time: 00:02:15

PIR Sensor

Name	Value
Name	pirsensor
Target X	108.19
Target Y	-178.67
Target Z	-235.05

```
1 // C++ code
2 //
3 int lightsensor = A0;
4 int pirsensor = 2;
5 int buzzer = 4;
6 int led=3;
7
8 void setup()
9 {
10   pinMode(lightsensor, INPUT);
11   pinMode(pirsensor, INPUT);
12   pinMode(buzzer, OUTPUT);
13   pinMode(led, OUTPUT);
14   Serial.begin(9600);
15 }
16
17 void loop()
18 {
19   lightsensor = analogRead(lightsensor);
20   pirsensor = digitalRead(pirsensor);
21   if (lightsensor < 700) {
22     if (pirsensor == HIGH) {
23       digitalWrite(led, HIGH);
24       digitalWrite(buzzer, HIGH);
25       delay(1000);
26     } else {
27       digitalWrite(buzzer, LOW);
28       digitalWrite(led, LOW);
29       delay(1000); // Wait for 1000 milliseconds
30     }
31   } else {
32     digitalWrite(buzzer, LOW);
33     digitalWrite(led, LOW);
34     Serial.println(lightsensor);
35   }
36 }
```

Serial Monitor