

Professional Readiness for
**INNOVATION,EMPLOYABILITY
AND ENTREPRENEURSHIP**

SMART HOME

SUBMITTED BY

KARTHIKA DEVI.M

961819106031

B12-6A2E

MOTION DETECTION USING IR SENSOR:

CODE:

```
int pirsensor =0;

void setup()
{
    pinMode(2, INPUT);
    pinMode(12, OUTPUT);
    pinMode(13, OUTPUT);
}

void loop()
{
    pirsensor = digitalRead(2);
    if(pirsensor == HIGH)
    {
        //glow led
        digitalWrite(13,HIGH);

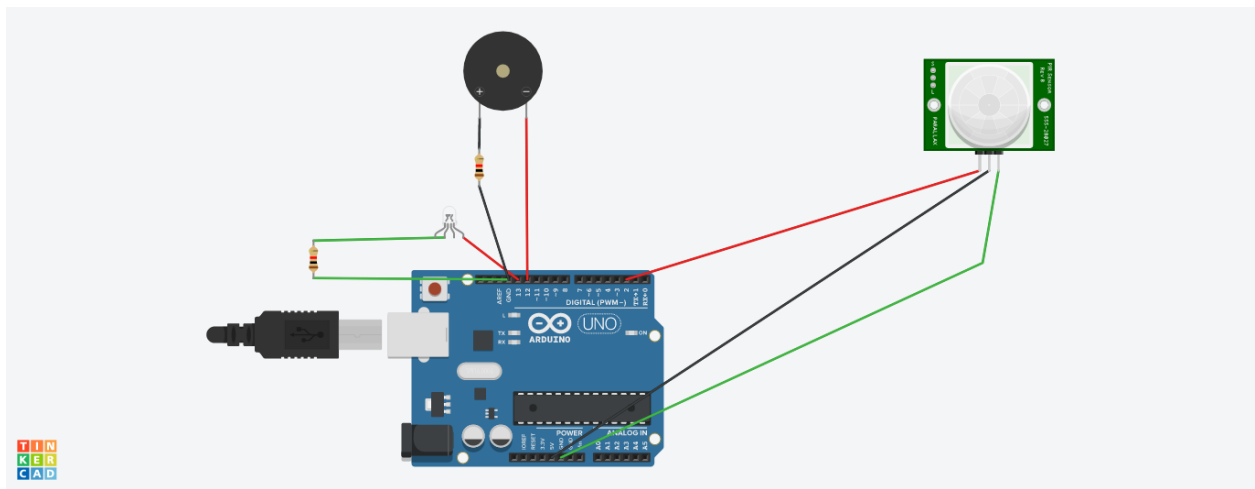
        // ring buzzer
        tone(12,500,500);
    }

    digitalWrite(13,LOW);
}
```

TINKERCAD LINK:

<https://www.tinkercad.com/things/0D67tv7VrG0>

FIGURE:



Whenever anyone comes in the path or range of IR sensor, microcontroller detects the distance of object from the sensor and if the object is in the defined range it sends the High signal to buzzer and buzzer starts beeping at the same time light is emitting.