

Professional Readiness For
Innovation, Employability And
Entrepreneurship

SMART HOME

Submitted By

NAME: S. Bavithra

REG NO.:961819106010

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Motion detection cum Security system using PIR sensor

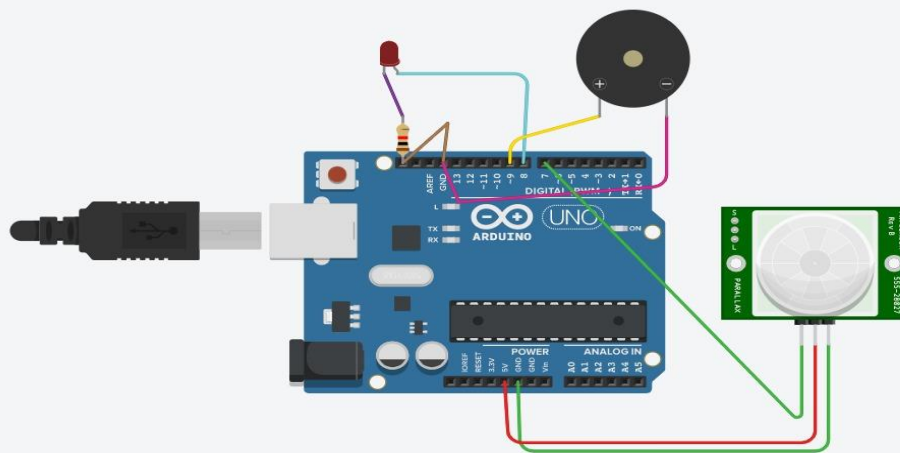
Code:

```
void setup()  
{  
  pinMode(7, INPUT);  
  pinMode(8, OUTPUT);  
  pinMode(9, OUTPUT);  
}  
  
void loop(){  
  if (digitalRead(7) == HIGH) {  
    digitalWrite(8, HIGH);  
    tone(9, 523, 1000);  
  }  
  else {  
    digitalWrite(8, LOW);  
    noTone(9);  
  }  
  delay(1000);  
}
```

TINKERCAD LINK:

<https://www.tinkercad.com/things/7jjivPUXIro>

FIGURE:



Passive infrared (PIR) sensors use a pair of pyroelectric sensors to detect heat energy in the surrounding environment. These two sensors sit beside each other, and when the signal differential between the two sensors changes (if a person enters the path/range), the sensor will engage. Therefore the buzzer gives a beep sound and the LED blinks.