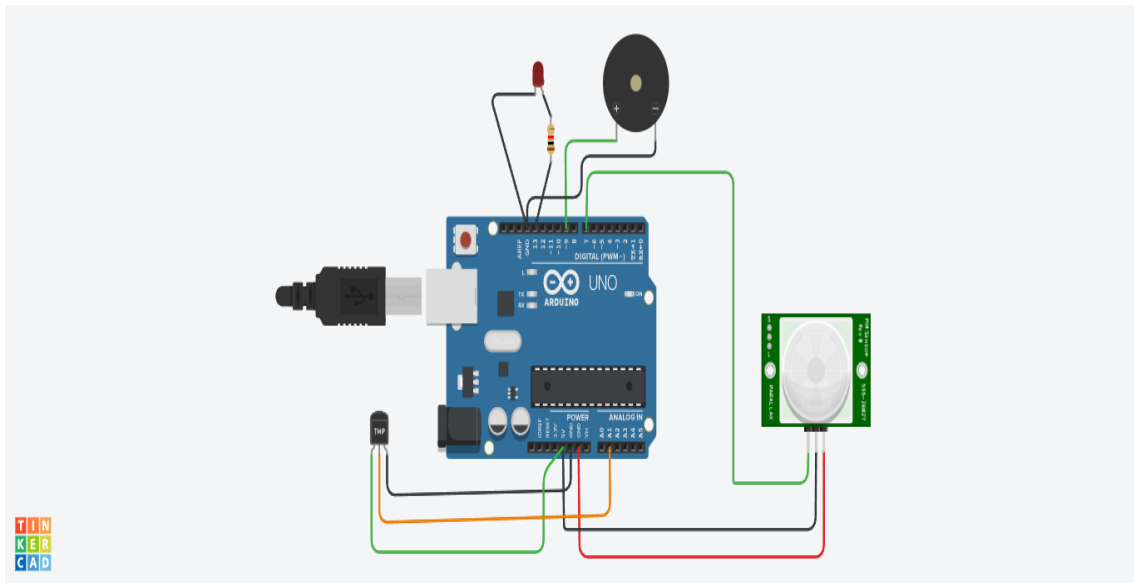


SMART HOME AUTOMATION

DETECTION OF OBJECT AND TEMPERATURE



```
// C++ code
/*
  code for security system
*/
float temp;
float vout;
float vout1;
int LED = 13;
void setup()
{
  pinMode(7, INPUT);
  pinMode(8, OUTPUT);
  pinMode(A1, INPUT);
  pinMode(LED, OUTPUT);
}

void loop()
{
  if (digitalRead(7) == HIGH) {
    tone(9, 523, 1000); // play tone 60 (C5 = 523 Hz)
  } else {
```

```
        digitalWrite(8, LOW);
        noTone(9);
    }
    vout=analogRead(A1);
    vout1=(vout/1023)*5000;
    temp=(vout1-500)/10;

    if (temp>=80)
    {
        digitalWrite(LED,HIGH);
    }
    else
    {
        digitalWrite(LED,LOW);
    }
    delay(1000); // Wait for 1000 millisecond(s)
}
```