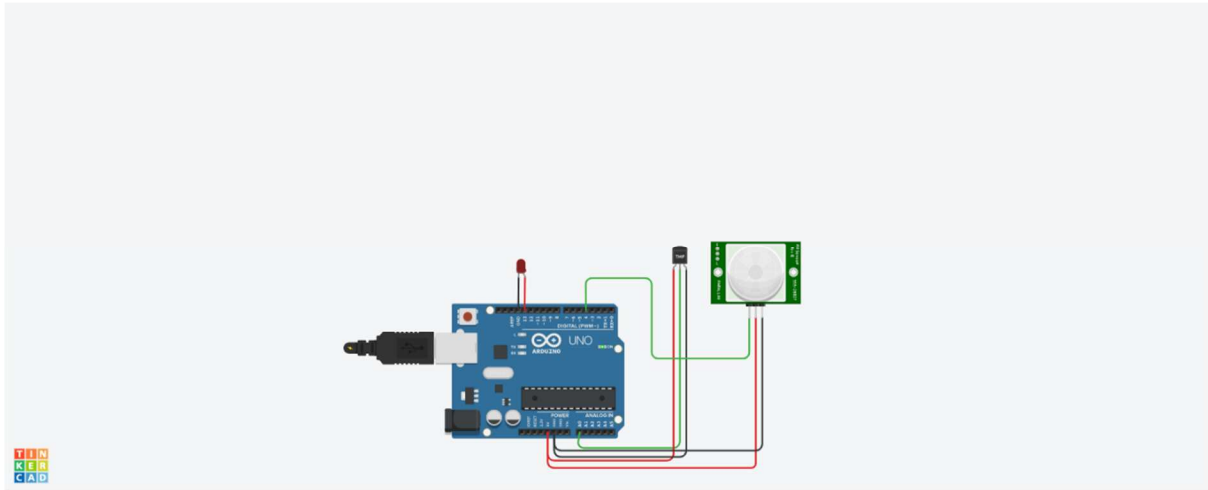


SMART HOME

CIRCUIT DIAGRAM



CODE

```
//c++ code
//
int sensorstate=0;
void setup()
{
  pinMode(4,INPUT);
  pinMode(13,OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  double a=analogRead(A0);
  Serial.print("The analog value is: ");
  Serial.println(a);
  delay(2000);
  double ca=a/1024;
  Serial.print("converted analog value is: ");
  Serial.println(ca);
}
```

```

delay(1000);

double v=ca*5;

Serial.print("voltage value is: ");

Serial.println(v);

delay(1000);

sensorstate=digitalRead(4);

if(sensorstate==HIGH)

{

    digitalWrite(13,HIGH);

    Serial.println("sensor activated");

}

else

{

    digitalWrite(13,LOW);

}

delay(100);

}

```

SIMULATION

