

Assignment-1

Make a Smart Home in Thinkercad, using 2 sensors, Led, Buzzer in single code and circuit.

Solution:

Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(4,INPUT);
  pinMode(8,OUTPUT);
  pinMode(13,OUTPUT);

}
void loop()
{
  int p=digitalRead(4);
  Serial.println(p); if(p)
  {
    digitalWrite(13,1); Serial.println("motion
    detected");
```



```

}
delay(1000);
double a=analogRead(A0); double
t=((a/1024)*5)-0.5)*100;

Serial.println(t);
if(t>25)
{
digitalWrite(8,1);
Serial.println("temperature greater than 25");delay(1000);
}
}

```

Circuit:

