

ASSIGNMENT- 01

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

CODE:

```
int peizo = 3;

int pir = 2;

int tmp = 1;

int TmpVal;

int pirLed = 4;

int TempLed = 5;


void setup()
{
    pinMode(peizo,OUTPUT);
    pinMode(tmp, INPUT);
    pinMode(pir, INPUT);
    pinMode(pirLed, OUTPUT);
    pinMode(TempLed, OUTPUT);
    Serial.begin(9600);
}
```

```
void loop()
{
    TmpVal = analogRead(tmp);
    Serial.write(TmpVal);
    if(TmpVal>246)
    {
        digitalWrite(TempLed,HIGH);
        for(int i=255;i>0;i--)
        {
            delay(1);
            analogWrite(peizo,i);
        }
        analogWrite(peizo,0);
        digitalWrite(TempLed,LOW);
        delay(100);
    }
    if(digitalRead(pir) == HIGH)
    {
        digitalWrite(pirLed,HIGH);
        for(int i=0;i<255;i++)
        {
            delay(1);
            int x = (i*i*i)%255;
```

```

    analogWrite(peizo,x);
  }
  analogWrite(peizo,0);
  digitalWrite(pirLed,LOW);
  delay(100);
}
}

```

CIRCUIT:

