Assignment-01

Build a smart home using sensor LED and Buzzer.

Program :

```
int t=2;

int e=3;

void setup()

{

Serial.begin(9600);

pinMode(e,OUTPUT);

pinMode(e,INPUT);

pinMode(12,OUTPUT);

}

void loop()
```

```
{

digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(20);

digitalWrite(t,LOW);

float dur=(e,HIGH);
float dis=(dur*0.0343)/2;

Serial.print("Distanceis");

Serial.println('dis');

if(dis>=100)

{

digitalWrite(8,HIGH);

digitalWrite(7,HIGH);

}

if(dis>=100)

{

for(int i=0;i<=30000;i=i+10)

{

tone(12,1);

delay(1000);

noTone(12);
```

```
    delay(1000);

    }

  }

double a=analogRead(A0);

double t=(((a/1024)*5)-0.5)*100;

Serial.print("Temp Value");

Serial.println(t);

delay(1000);

if(t>=100);

{

digitalWrite(8,HIGH);

digitalWrite(7,HIGH);

}

if(t=100);

{

for(int i=0;i<3000;i=i+10)

{

tone(12,i);

delay(1000);

noTone(12);
```

```
delay(1000);

}

}

if(t<100)

{

digitalWrite(8,LOW);

digitalWrite(7,LOW);

}

}
```

OUTPUT: