# Assignment - 1

**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 :

