

**Dr. Mahalingam College of
Engineering and Technology**

Department of Computer Science and Engineering

IOT Assignment

Topic: Assignment on home automation using Arduino

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Code:-

```
int t=2; int
e=3;
void setup()
{
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
}
void loop() {
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW); float
dur=pulseIn(e,HIGH); float
dis=(dur*0.0343)/2;
```

```

Serial.print("Distance is:
"); 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,i); delay(1000);
noTone(12);
delay(1000);
}
}
double a= analogRead(A0); double
t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
S          Serial.println(t);
delay(1000); if(t>=100)
{

```

```
digitalWrite(8,HIGH)

;

digitalWrite(7,HIGH)

; } if(t>=100)

{

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

{

tone(12,i);
delay(1000);
noTone(12);
delay(1000);
} } if(t<100)
{
digitalWrite(7,LOW);
}
}

digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}
```

OUTPUT :

