

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 :

