

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 :

