VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

Topic : Assignment on home automation using Arudino

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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);
```

```arduino
  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<=30000; i=i+10)
 {
   tone(12,i);
   delay(1000);
   noTone(12);
   delay(1000);
 }
 }
 if(t<100)
 {
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
 }
}
```

Output:-