

BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM

Department of Computer Science and Engineering

IOT Assignment

Topic : Assignment on smart home automation using Arudino and Sensors

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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,0);
    digitalWrite(t,1);
    delayMicroseconds(10);
    digitalWrite(t,0);
    float dur=pulseIn(e,1);
    float dis=(dur*0.0343)/2;
    Serial.print("Distance is: ");
    Serial.println(dis);
    if(dis>=100)
    {
        digitalWrite(8,1);
        digitalWrite(7,1);
    }
    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: ");
Serial.println(t);
delay(1000); if(t>=100)
{
  digitalWrite(8,1);
  digitalWrite(7,1);
}
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(8,0);
  digitalWrite(7,0);
}
}
}

```

Output:-

