IOT Assignment

Topic: Assignment on Home Automation using Arduino

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 :