

IOT Assignment

Topic : Assignment on home automation using Audino

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```
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)//(in terms of centimeter)
{
  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: "); Serial.println(t);
  delay(1000); //LED
  ON
  if(t>=100)//(in terms of celsius)
  {
  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:-


