ASSIGNMENT-1

Assignment on home automation using Audino

```
int a=2:
int b=3;
void setup()
  Serial.begin(9600);
  pinMode(a,OUTPUT);
  pinMode(b,INPUT);
  pinMode(12,OUTPUT);
}
void loop()
  digitalWrite(a,LOW);
  digitalWrite(a,HIGH);
  delayMicroseconds(20);
  digitalWrite(a,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 t= analogRead(A0);
double a=(((a/1024)*5)-0.5)*100;Serial.print("Temp Value: ");
S Serial.println(a);
delay(1000);
if(a > = 100)
  digitalWrite(8,HIGH);
```

```
digitalWrite(7,HIGH);
}
if(a>=100)
{
    for(int i=0; i<=30000; i=i+10)
    {
        tone(12,i);
        delay(10000);
        noTone(12);
        delay(10000);
}
}
if(a<100)
{
    digitalWrite(7,LOW);
}
{
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
}
</pre>
```

Output:

