```cpp
// C++ 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);
  delay(1000);
  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:");

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);

  }

}
```