ASSIGNMENT-1

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Code:

```
//
C++cod
eintt=2;
inte=3;
voidset
up()
{
        Serial.begin(9600);pin
        Mode(t,OUTPUT);pin
        Mode(e,INPUT);pinMo
        de(12,OUTPUT);
}

voidloop()
{
  //ultrasonic
        sensordigitalWrite(t,LO
        W);digitalWrite(t,HIGH)
        ;delayMicroseconds(10;
```

```
    digitalWrite(t,LOW);
    float
    dur=pulseIn(e,HIGH);float
    dis=(dur*0.0343)/2;Serial.
    print("Distanceis:");Serial.
    println(dis);
//LEDON
if(dis>=60)       //(intermsofcentimeter)
{

    digitalWrite(8,HIGH);digitalWri
    te(7,HIGH);
}
//BuzzerForultrasonicS
ensorif(dis>=60)
{
    for(inti=0;i<=5;i=i+1)
{
tone(12,i);d
elay(1000);n
oTone(12);d
elay(1000);
}
}
```

```
//Temperate
Sensordoublea=analogRe
ad(A0);
doublet=(((a/1024)*5)0.5)*100;
Serial.print("Temp Value:
");Serial.println(t);
delay(1000);

 //LEDON
 if(t>=20)          //(intermsofcelsius)
 {
       digitalWrite(8,HIGH);digitalWri
       te(7,HIGH);


 }
 //BuzzerforTemperature
 Sensorif(t>=20)
 {
       for(inti=0;i<=5;i=i+1)
 {
       tone(12,i);d
       elay(1000);n
       oTone(12);d
       elay(1000);
 }
```

```
 }
//LEDOFF
if(t<20)

{
        digitalWrite(8,
        LOW);digitalWrite(7,
        LOW);
        }
```