## Assignment -1

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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()
  //ultrasonic sensor
  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);
    //LED ON
  if(dis >= 100)
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
  //Buzzer For ultrasonic Sensor
  if(dis >= 100)
  for (int i=0; i <= 30000; i=i+10)
  tone (12, i);
  delay(1000);
  noTone (12);
  delay(1000);
  }
    //Temperate Sensor
  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)
   digitalWrite(8,HIGH);
   digitalWrite(7,HIGH);
 //Buzzer for Temperature Sensor
 if(t>=100)
 for(int i=0; i<=30000; i=i+10)
 tone (12, i);
 delay(1000);
 noTone(12);
 delay(1000);
 }
  //LED OFF
 if(t<100)
   digitalWrite(8,LOW);
   digitalWrite(7,LOW);
}
```