KCG COLLEGE OF TECHNOLOGY, CHENNAI DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME: RAGINI KUMARI **IOT ASSIGNMENT -1 TOPIC**: Signs With Smart Connectivity For Better Road Safety 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: ");

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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);
}
```

