

SNS COLLEGE OF TECHNOLOGY

DEPARTMENT OF ECE

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PROJECT: Industry-specific intelligent fire management system

PROJECT CODE:

```
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: ");
```

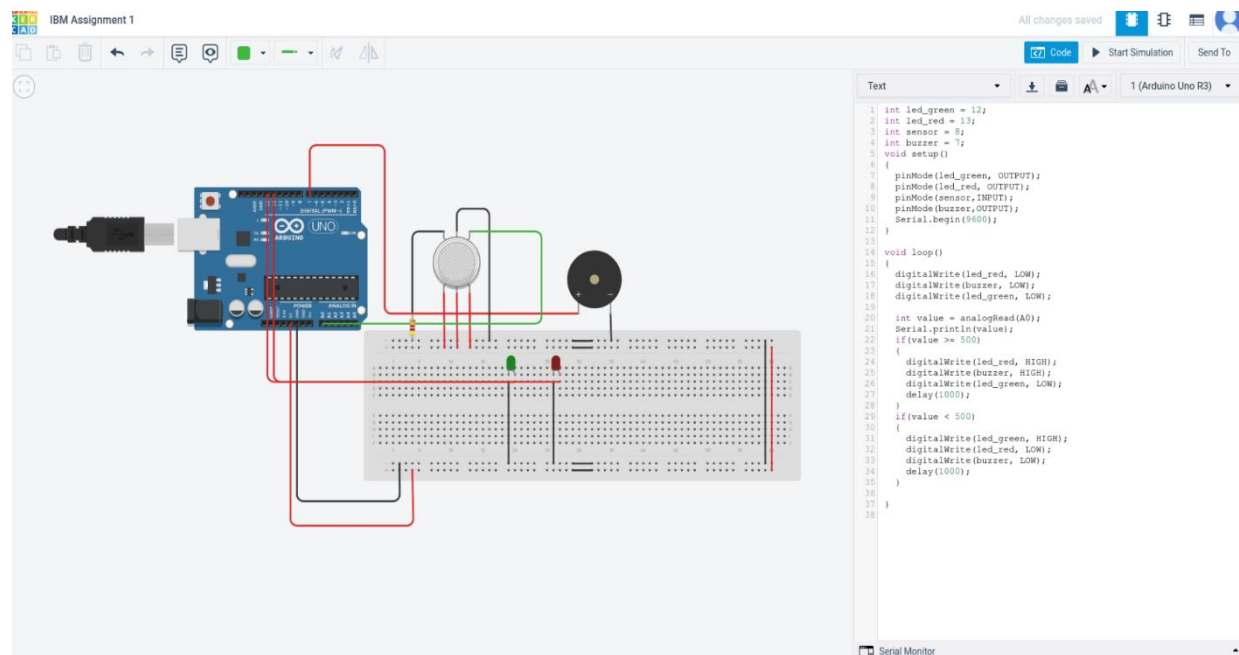
```
Serial.println(t);
```

```
delay(1000);
```

```
}
```

```
}
```

CIRCUIT WITH CODE:



CIRCUIT WITH OUTPUT:

