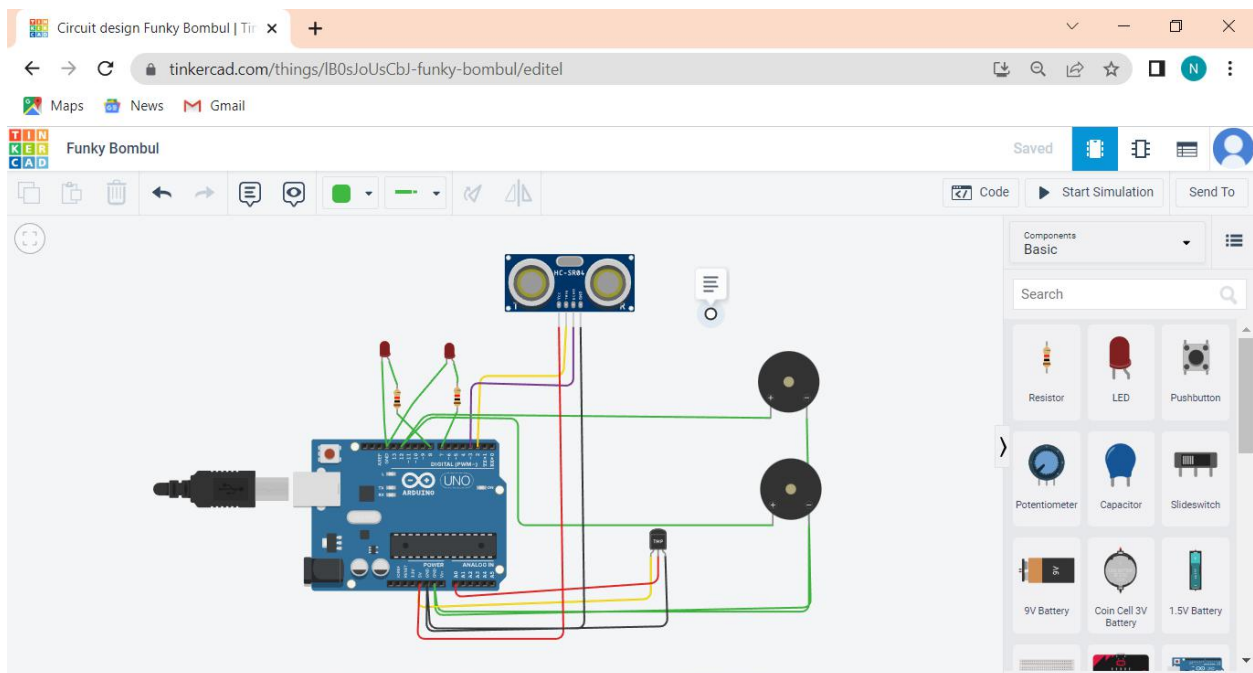
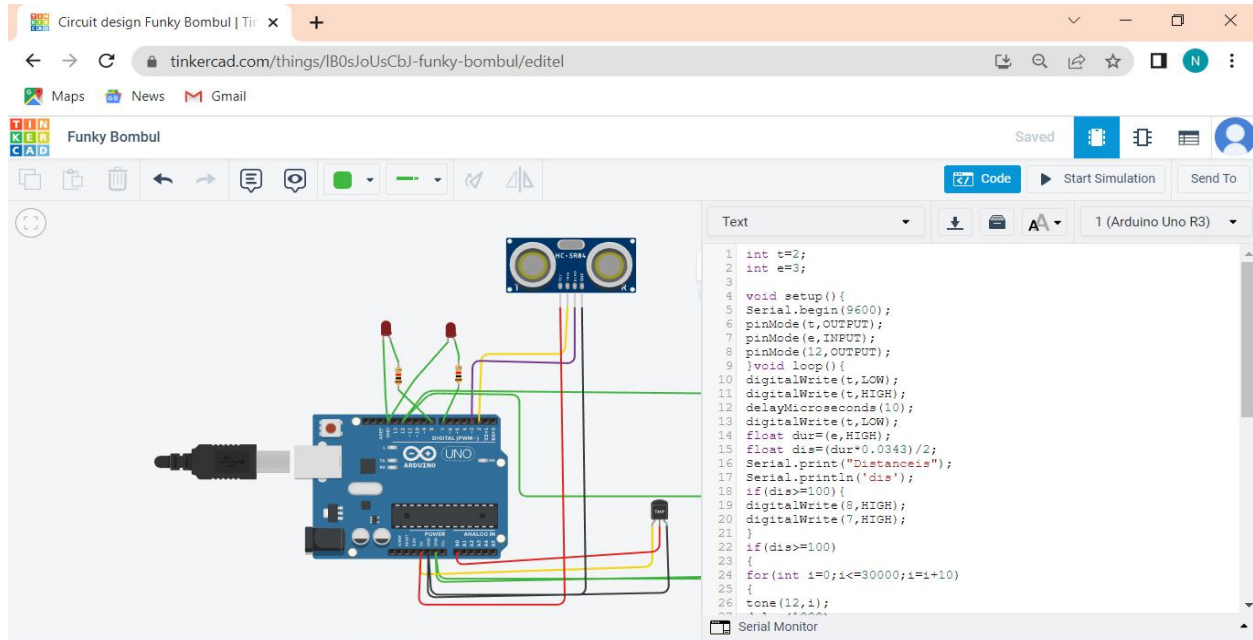


ASSIGNMENT -1

TEAM ID	PNT2022TMID44430
REGISTER NUMBER	731219106012
PROJECT NAME	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE .
ASSINMENT -1	MAKE A SMART HOME IN TINKERCAD,USING 2+ SENSORS,LED,BUZZER IN SINGLE CODE AND CIRCUIT .





PROGRAM :

```
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);  
delayMicroseconds(10);  
digitalWrite(t,LOW);  
float dur=(e,HIGH);  
float dis=(dur*0.0343)/2;  
Serial.print("Distanceis");  
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<3000;i=i+10)  
  
{  
  
tone(12,i);  
  
delay(1000);  
  
noTone(12);
```

```
delay(1000);
```

```
}
```

```
}
```

```
if(t<100)
```

```
{
```

```
digitalWrite(8,LOW);
```

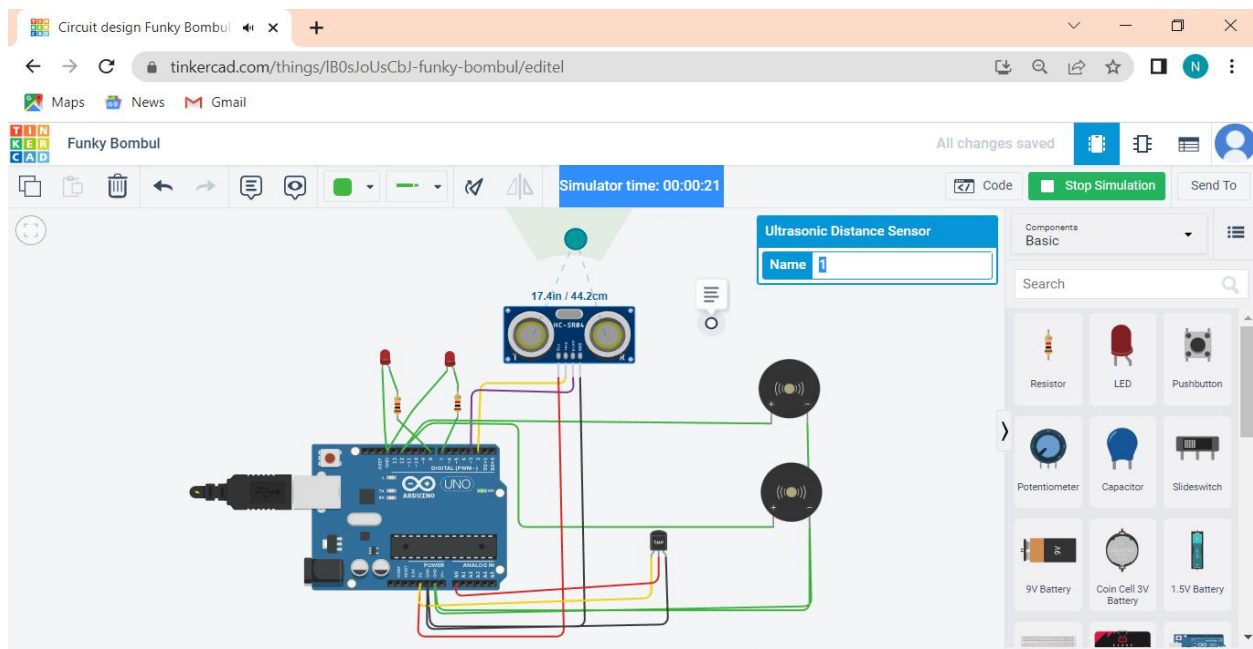
```
digitalWrite(7,LOW);
```

```
}
```

```
}
```

OUTPUT :

ULTRASONIC SENSOR :



TEMPERATURE SENSOR :

