ASSIGNMENT –1

TEAM ID	PNT2022TMID44430
REGISTER NUMBER	731219106001
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 .
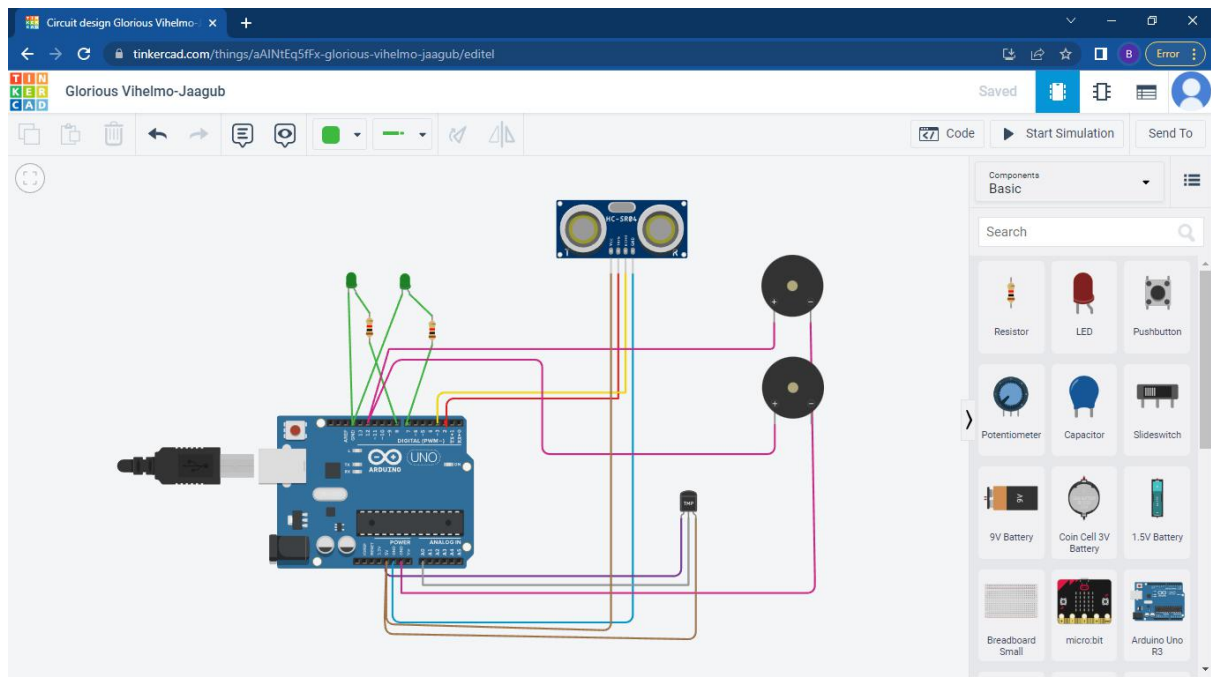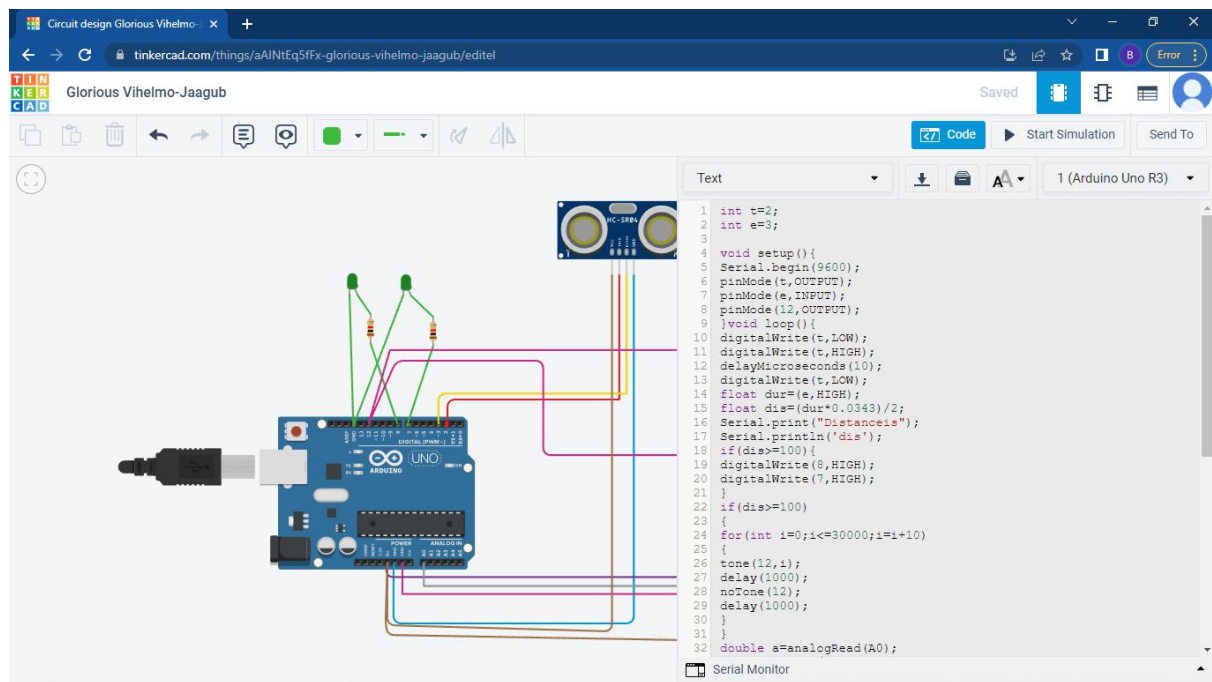
PROGRAM :

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);
```
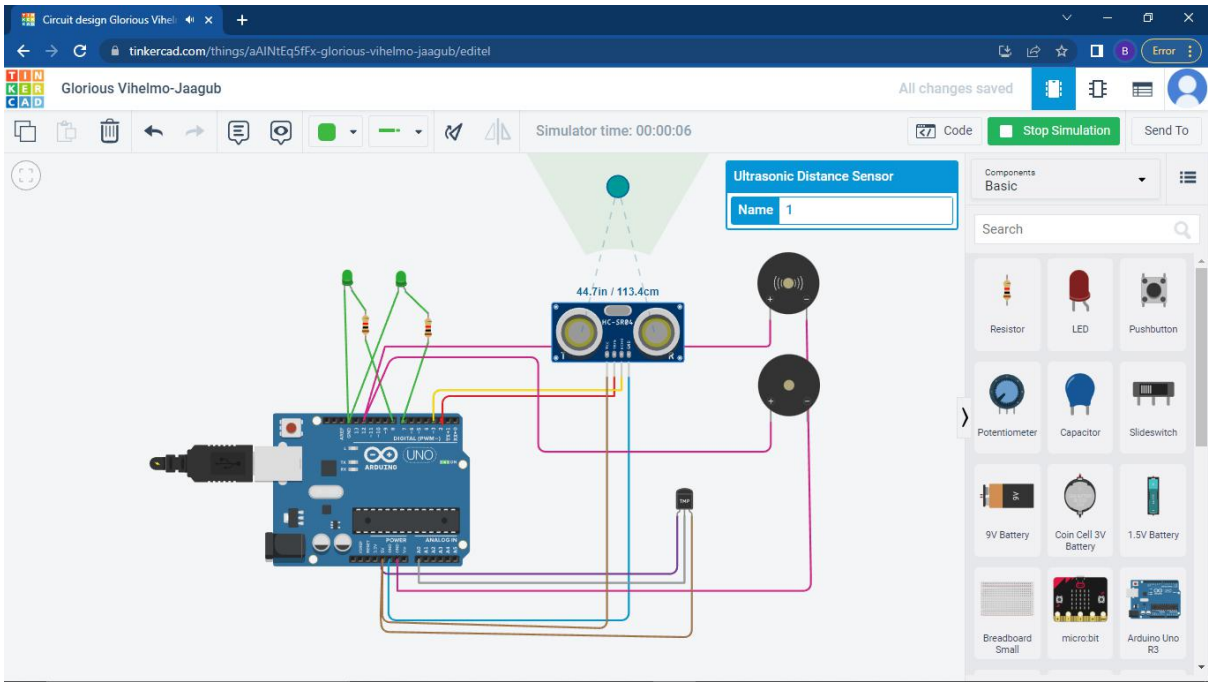
```
if(t>=100) {

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 :