ASSIGNMENT-1

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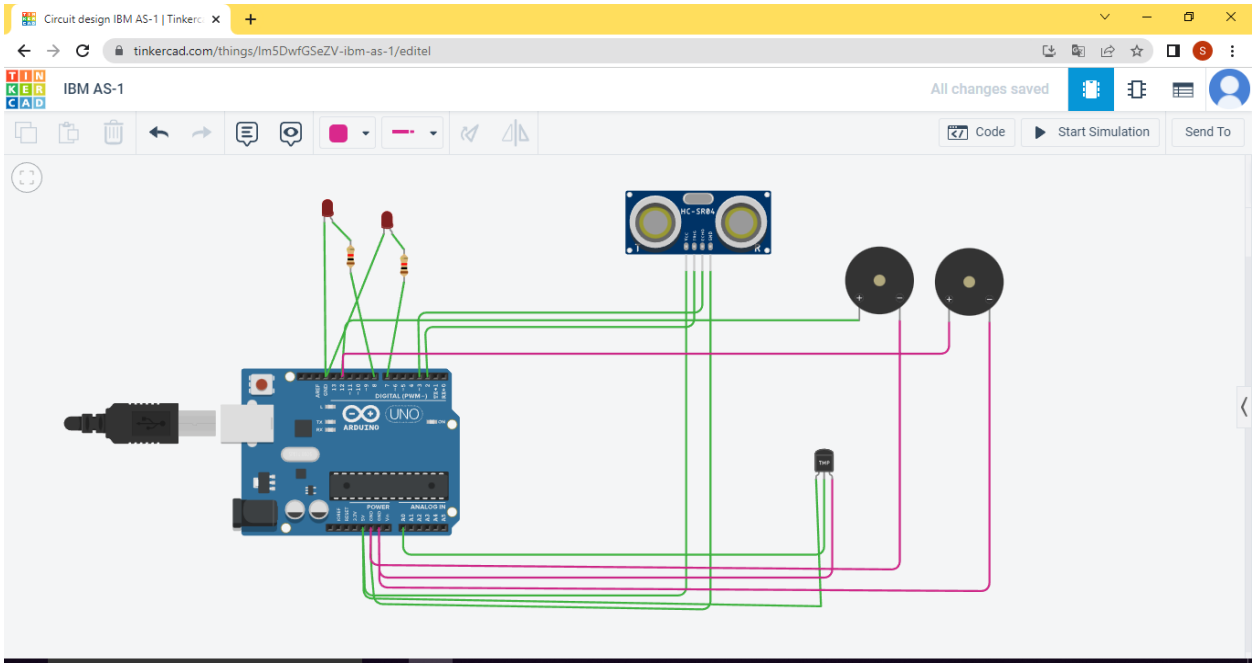
PROJECT NAME:	SmartFarmer-IOT Enabled Smart Farming Application

ASSIGNEMNT-1 TITLE:

Make a smart Home in Tinkercad,Using 2 sensors,LED,Buzzer in single code and circuit

CIRCUIT:



PROGRAM:

```
int t=2;

int e=3;


void setup(){

Serial.begin(9600);

pinMode(e,OUTPUT);

pinMode(e,INPUT);

pinMode(12,OUTPUT);

}void loop(){

digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(20);

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(12,1);
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: