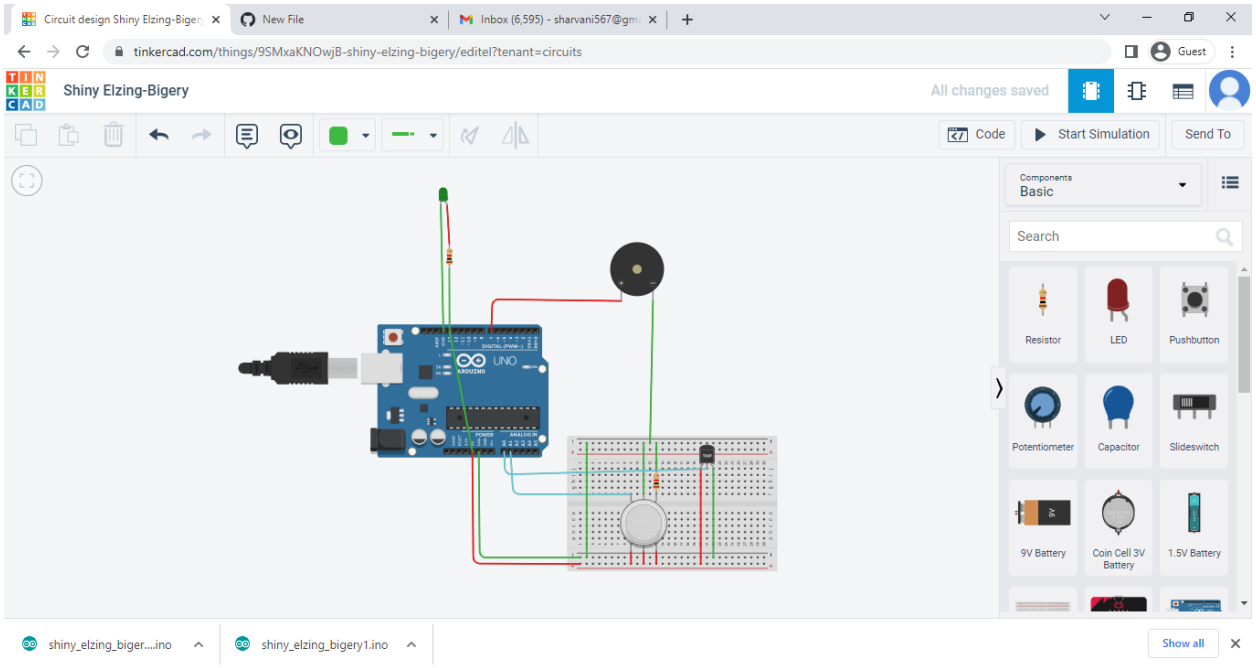
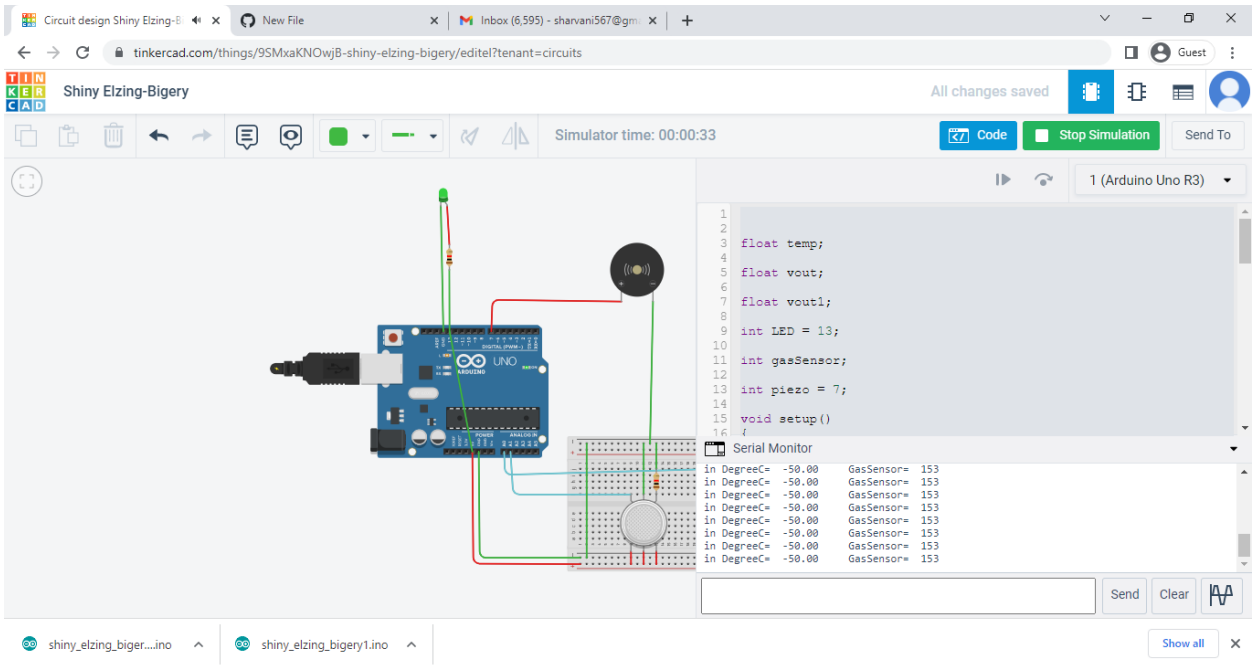
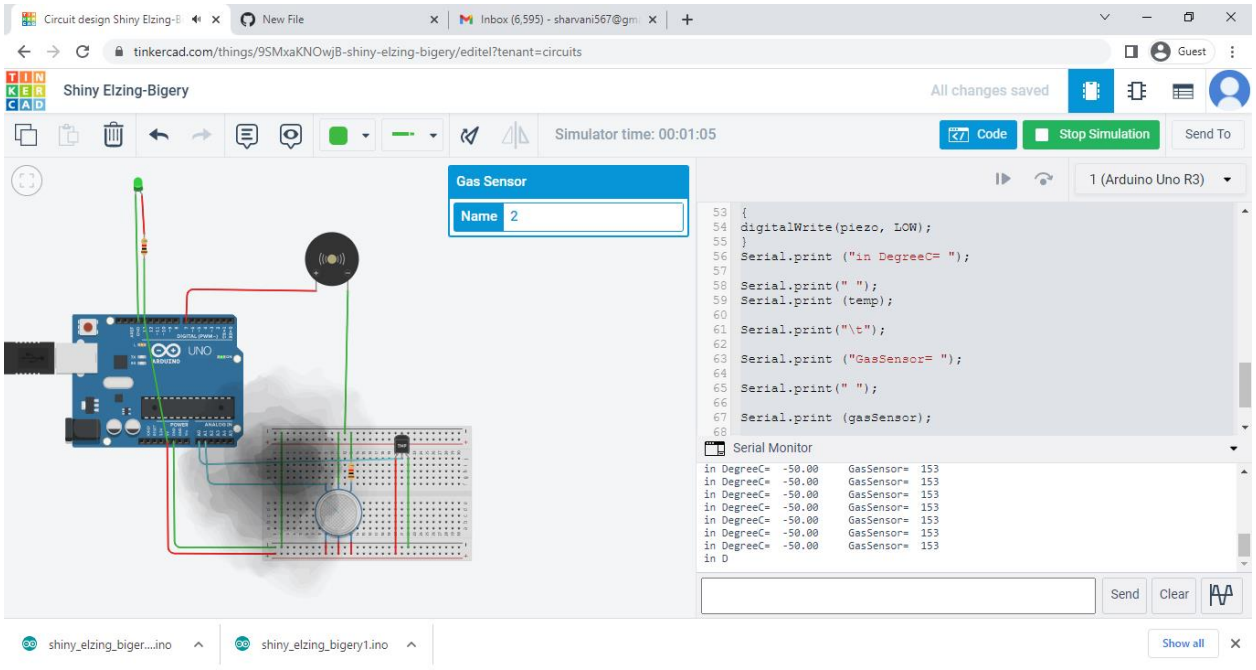
Assignment -1

Home automation using sensors

Assignment Date	19 September 2022
Student Name	Sharvani G Hegde
Student Roll Number	410819106004
Maximum Marks	2 Marks







float temp;

float vout;

float voutl;

```
int LED = 13;

int gasSensor;

int piezo = 7;

void setup()
{

pinMode (A0, INPUT);

pinMode (A1, INPUT);

pinMode (LED, OUTPUT);

pinMode (piezo, OUTPUT);

Serial.begin(9600);
}
void loop()
{
vout=analogRead (A1);
yout1=(yout/1023)*5000;
temp=(vout1-500)/10;

gasSensor=analogRead (A0);

if (temp>=80)
{
```

```
digitalWrite(LED, HIGH);
}
else
{
digitalWrite(LED, LOW);
}
if (gasSensor>=100)
{
digitalWrite(piezo, HIGH);
}
else
{
digitalWrite(piezo, LOW);
}
Serial.print ("in DegreeC= ");

Serial.print(" ");
Serial.print (temp);

Serial.print("\t");

Serial.print ("GasSensor= ");

Serial.print(" ");

Serial.print (gasSensor);

Serial.println();
```

```
delay(1000);
}
```