NAME: SUGAPRIYA A

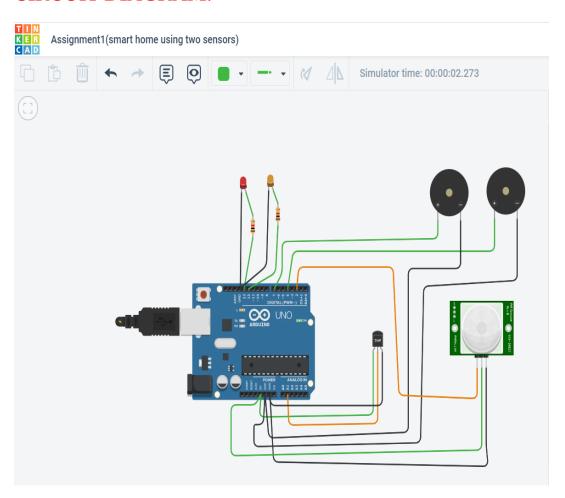
ROLLNO:91761914040

BATCH: B1-1M3E

ASSIGNMENT-1

(Make a smart home in tinkercad, using 2+ sensors, led, buzzer in single code and circuit)

CIRCUIT DIAGRAM:



SOURCE CODE:

```
// C++ code
//
```

void setup()

```
{
 Serial.begin(9600);
 pinMode(12, OUTPUT);
 pinMode(13, OUTPUT);
 pinMode(7, OUTPUT);
 pinMode(4, OUTPUT);
 pinMode(2, INPUT);
}
void loop()
{
 double a=analogRead(A1);
 Serial.print("adc value:");
 Serial.println(a);
 double v = a/1024;
 double tvalue=v*5;
 Serial.print("temperature value in voltage:");
 Serial.println(tvalue);
         double o= tvalue-0.5;
         double t = 0*100;
         Serial.print("temperature value is");
         Serial.println(t);
         if (t > = 50)
          digitalWrite(7,HIGH);
```

```
digitalWrite(13,HIGH);
        else
        {
         digitalWrite(7,LOW);
         digitalWrite(13,LOW);
int m= digitalRead(2);
Serial.print("motion detected");
Serial.println(m);
if (m==1)
 Serial.println("yes");
 digitalWrite(12,HIGH);
 digitalWrite(4,HIGH);
else
 Serial.println("no");
 digitalWrite(12,LOW);
 digitalWrite(4,LOW);
```