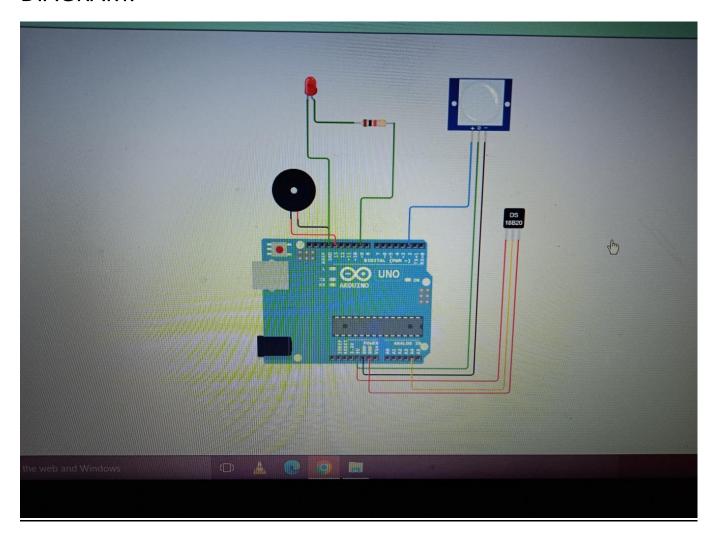
ASSIGNMENT 1

BUILDING A SMART HOME

LINK: https://wokwi.com/projects/362725747827982337

DIAGRAM:



CODE:

```
void setup()
{
Serial.begin(9600);
pinMode(2,INPUT);
pinMode(13,OUTPUT);
```

```
}
void loop()
{
 int motion=digitalRead(2);
 double tempdata=analogRead(A4);
 double a=tempdata/1024;
 double volts=a*5;
 double off =volts-0.5;
 double temperature=off*100;
 double deg= 50;
if (motion==1)
{
  digitalWrite(13,HIGH);
  delay(1000);
  digitalWrite(13,HIGH);
  delay(1000);
  Serial.println("Motion is being detected");
  }
else
{
  digitalWrite(13,LOW);
  Serial.println("Motion isn't being detected");
```

```
if (temperature> deg)
{
    digitalWrite(13,HIGH);
    Serial.print("Temperature:");
    Serial.println(temperature);
}
else
{
    digitalWrite(13,LOW);
    Serial.print("Temperature:");
    Serial.println(temperature);
}
```