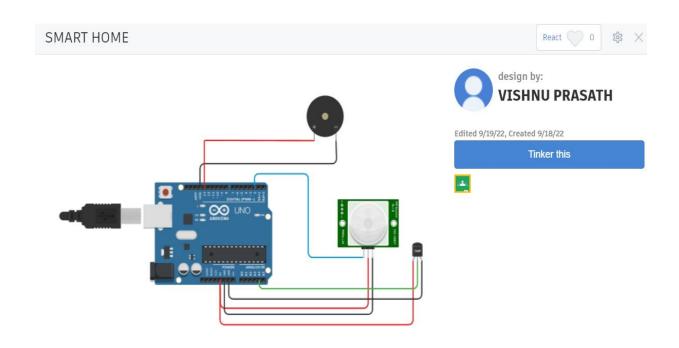
## **ASSIGNMENT 1**

## **SMART HOME AUTOMATION USING SENSORS**



## **CODE**:

```
//C
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);}
}
```