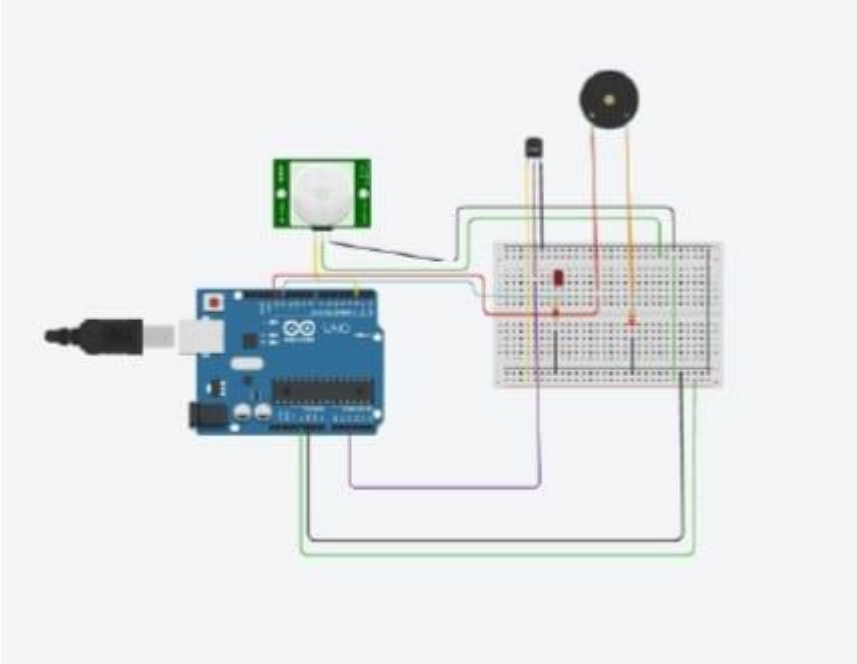
Assignment -1

Assignment Date	06 November 2022
Student Name	Ms.K.Priyadharshini
Student Roll Number	821719106020
Maximum Marks	2 Marks

Question-1:

Build a smart home in thinkercad with 2 sensors, an LED , buzzer.



Coding:

```
int pinSensor =2;
int pinLed =12;
int pinBuzzer =13;
int pirSensor =0;

void setup()
{
  Serial.begin(9600);
  pinMode(pinSensor, INPUT);
  pinMode(pinLed, OUTPUT);
  pinMode(pinBuzzer, OUTPUT);

}

void loop()
{

  double avalue=analogRead(A2);
```

```
  Serial.print("avalue is : ");
   Serial.println(avalue);
  double ca= avalue/1024;
  double v= ca* 5;
  Serial.print("voltage is:");
  Serial.println(v);
  double o =v-0.5;
    Serial.print("offset voltage:");
  Serial.println(o);
  pirSensor = digitalRead(pinSensor);
  if (pirSensor == HIGH)
  {

    digitalWrite(pinLed, HIGH);
    tone(pinBuzzer, 1000, 500);

  }

  else {

        digitalWrite(pinLed, LOW);
  }

  delay(10);
}
```

Output :