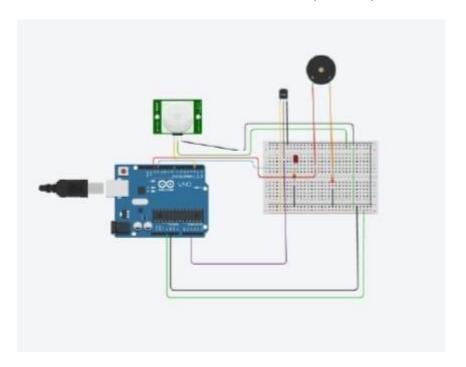
Assignment -1

Assignment Date	06 November 2022
Student Name	Ms.K.Vanisri
Student Roll Number	821719106027
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 \circ = 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:

