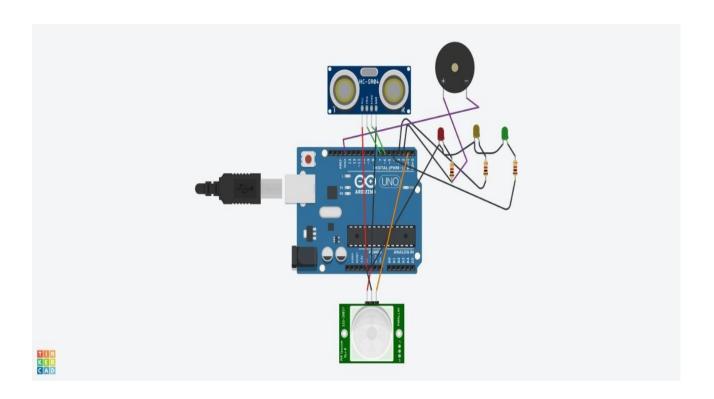
ASSIGNMENT -1

Assignment Date	18 September 2022
Student Name	Sanjai R
Student Roll Number	721219106046
Maximum Marks	2 Marks

 ${\bf Question}: Make a \ Smart \ Home \ in \ Tinkercad$, using 2+ sensors , Led , Buzzer in Single code and Circuit.

Solution:

CIRCUIT



CODE

- #define t 7
- #define e 6
- #define r 2
- #define y 3
- #define g 4

```
void setup()
 Serial.begin(9600);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
pinMode(r,OUTPUT);
pinMode(y,OUTPUT);
pinMode(g,OUTPUT);
 pinMode(1,INPUT);
 pinMode(13,OUTPUT);
}
void loop()
int value = digitalRead(1);
 digitalWrite(13,value);
 if(value==1)
  Serial.println("Stopped");
  delay(1000);
 else if(value==0)
  Serial.println("Moving");
  delay(1000);
 digitalWrite(t,LOW);
```

```
digitalWrite(t,HIGH);
 delayMicroseconds(10);
 digitalWrite(t,LOW);
float dur = pulseIn(e,HIGH);
 float dia = (dur/2) * 0.0343;
//Serial.print("Distance in cm:");
// Serial.println(dia);
 if(dia<100)
 {
  digitalWrite(r,HIGH);
  digitalWrite(y,LOW);
  digitalWrite(g,LOW);
 else if(dia>=100 && dia<=200)
 {
  digitalWrite(y,HIGH);
  digitalWrite(r,LOW);
  digitalWrite(g,LOW);
 }
 else
  digitalWrite(g,HIGH);
  digitalWrite(r,LOW);
  digitalWrite(y,LOW);
 }
```