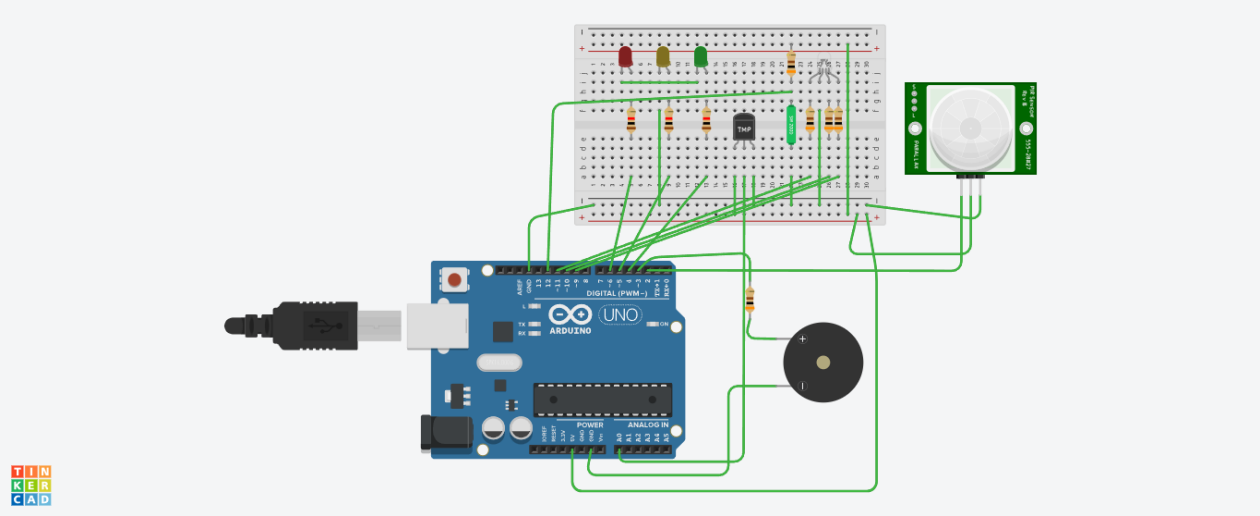
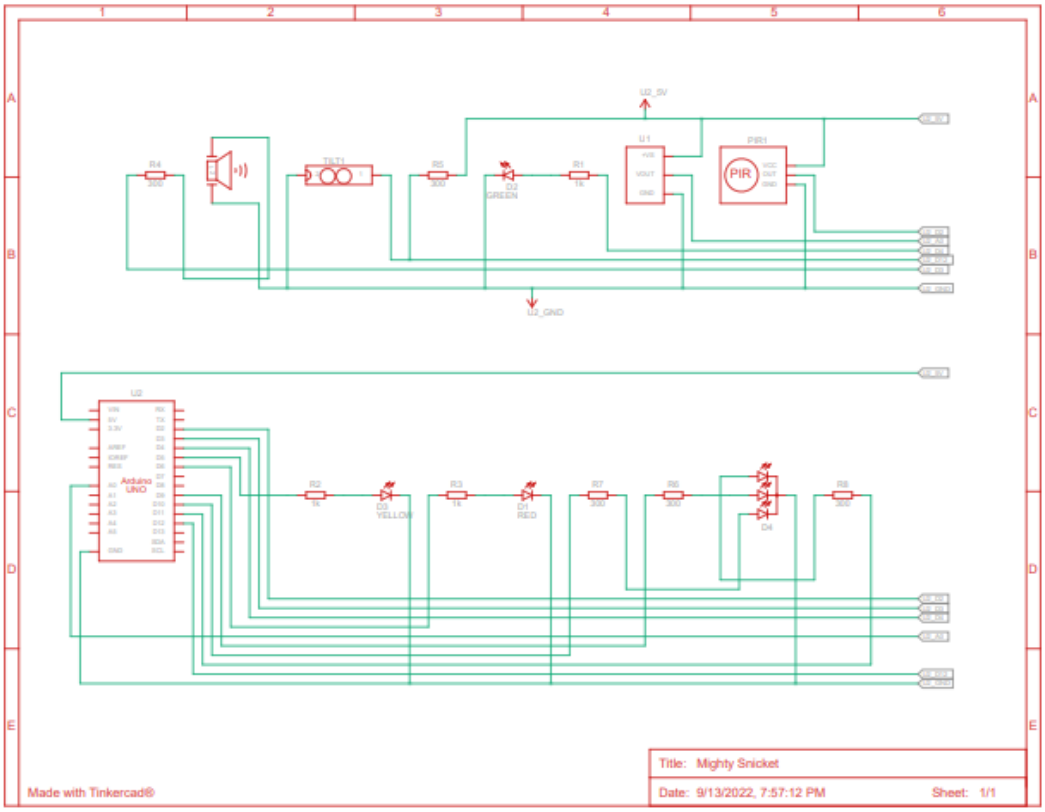
Assignment -1

MAKE SMART HOME WITH ATLEAST 2 SENSORS AND LED BUZZER IN THINKERCAD



SCHEMATIC:



CODE (ARDUINO) :

```
const int led1=6,led2=5,led3=4;
const int pir=2,tilt=12,buzzer=3,r=11,g=10,b=9;
const int temp=A0;
int carry,i,j,k;
void setup()
{
        pinMode(led1,OUTPUT);
        pinMode(led2,OUTPUT);
        pinMode(led3,OUTPUT);
        pinMode(buzzer,OUTPUT);
        pinMode(pir,INPUT);
        pinMode(tilt,INPUT);
        pinMode(r,OUTPUT);
        pinMode(g,OUTPUT);
        pinMode(b,OUTPUT);
        Serial.begin(9600);
}
void loop()
{
        carry=digitalRead(tilt);
        i=digitalRead(pir);
        j=analogRead(temp);
        delay(500);
 if((carry==1)&&(i!=HIGH))
 {
          digitalWrite(led1,HIGH);
          delay(500);
          digitalWrite(led2,HIGH);
          delay(500);
          digitalWrite(led3,HIGH);
          delay(500);
          digitalWrite(led1,LOW);
          delay(500);
          digitalWrite(led2,LOW);
          delay(500);
          digitalWrite(led3,LOW);
          delay(500);
 }
 else if(i!=HIGH)
 {
          digitalWrite(led3,HIGH);
          delay(500);
          digitalWrite(led2,HIGH);
          delay(500);
```

```
            digitalWrite(led1,HIGH);
            delay(500);
            digitalWrite(led3,LOW);
            delay(500);
            digitalWrite(led2,LOW);
            delay(500);
            digitalWrite(led1,LOW);
            delay(500);
}

if(i==HIGH)
{
            digitalWrite(led1,HIGH);
            digitalWrite(led2,HIGH);
            digitalWrite(led3,HIGH);
            tone(buzzer,1200,500);
            digitalWrite(led1,LOW);
            digitalWrite(led2,LOW);
            digitalWrite(led3,LOW);
}
if(j<100)
{
          analogWrite(r,255);
          analogWrite(g,0);
          analogWrite(b,0);
          delay(100);
          analogWrite(r,0);
          analogWrite(g,255);
          analogWrite(b,0);
           delay(100);
          analogWrite(r,0);
          analogWrite(g,0);
          analogWrite(b,255);
           delay(100);
          analogWrite(r,255);
          analogWrite(g,0);
          analogWrite(b,255);
           delay(100);
          analogWrite(r,255);
          analogWrite(g,255);
          analogWrite(b,0);
           delay(100);
          analogWrite(r,0);
          analogWrite(g,255);
          analogWrite(b,255);
           delay(100);
```

```
        analogWrite(r,255);
        analogWrite(g,255);
        analogWrite(b,255);
  }else{
        analogWrite(r,0);
        analogWrite(g,0);
        analogWrite(b,0);
  }
}:
```