

ASSIGNMENT- 1

TECHNOLOGY: INTERNET OF THINGS

DOMAIN: SMART HOME AUTOMATION

DESCRIPTION:The assignment is about application of automatic lighting where human interaction is less. The two physical quantities are controlled which are human motion and intensity of light.

MATERIALS USED:

- *PIR sensor

- *LDR

- *Power supply

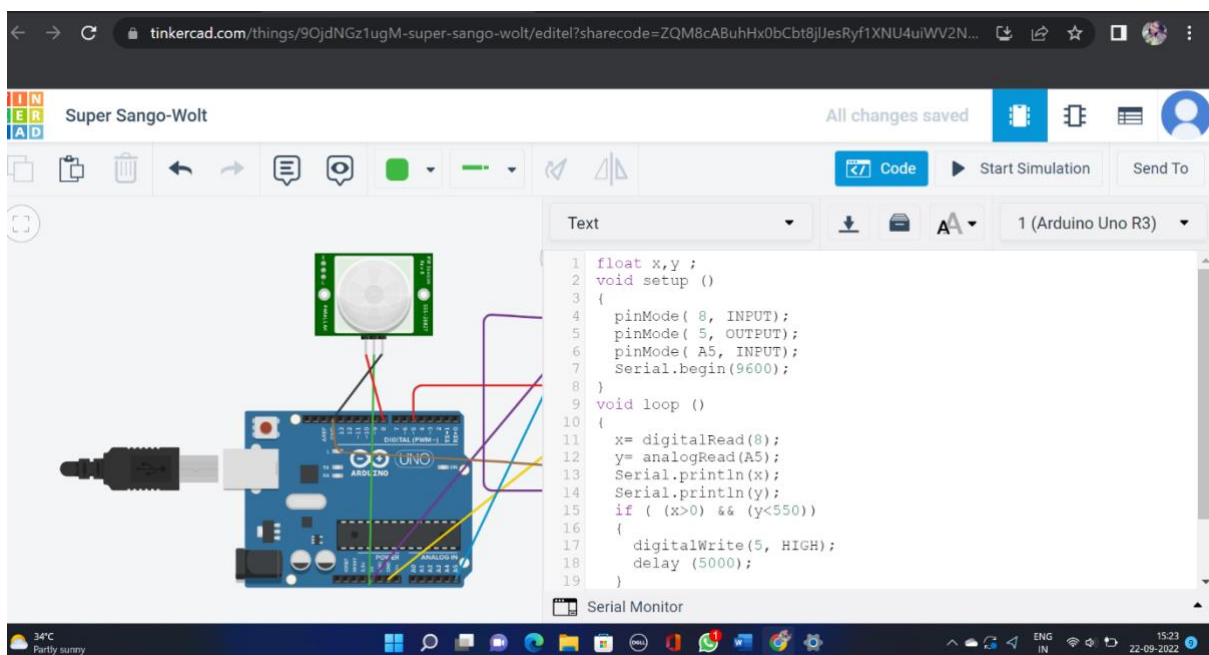
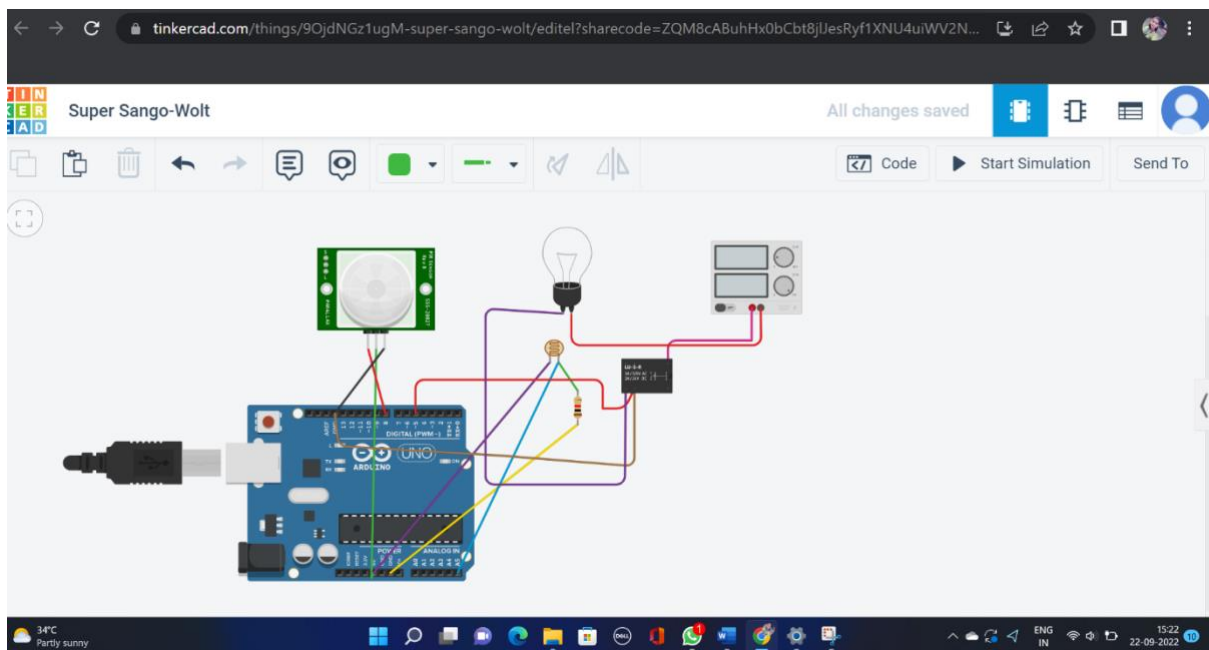
- *Relay

- *Arduino uno R3

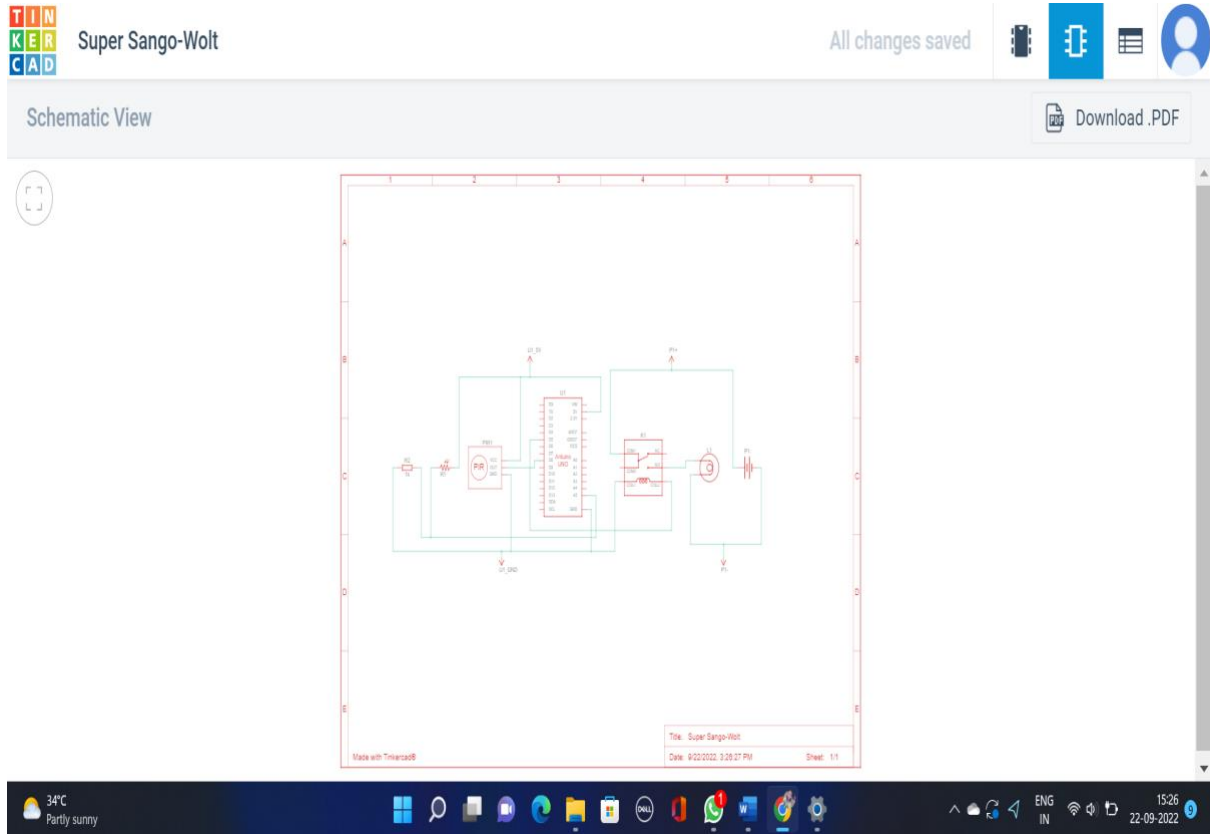
DESIGN SITE:

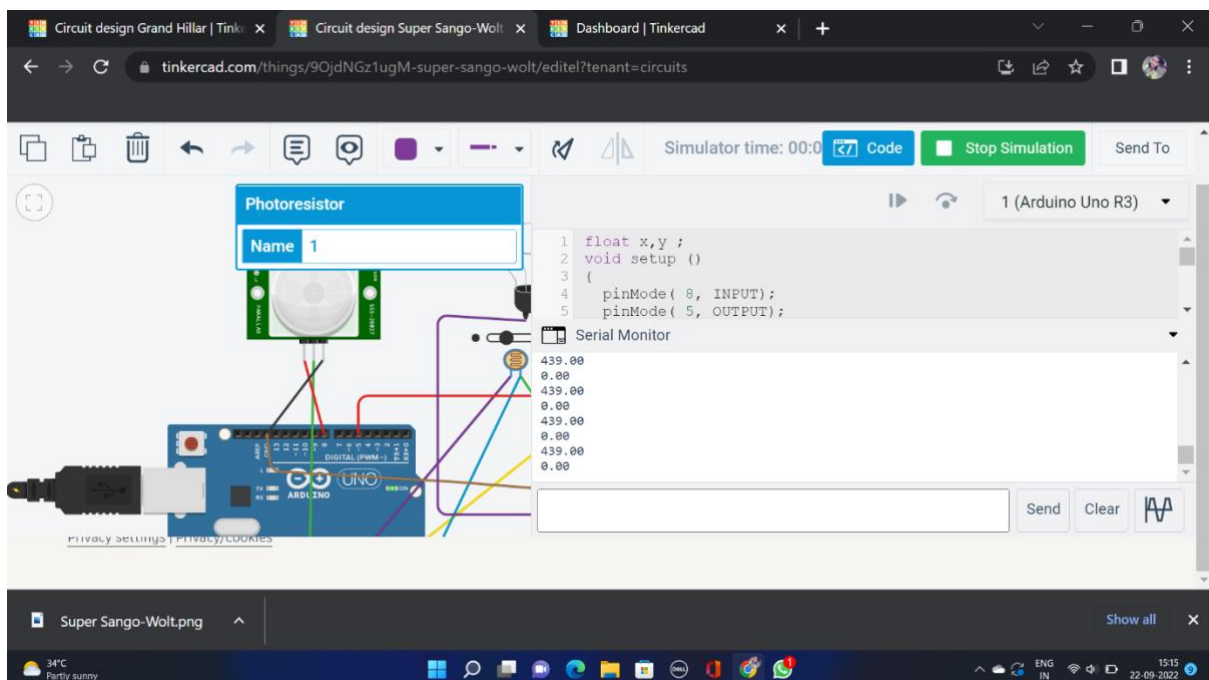
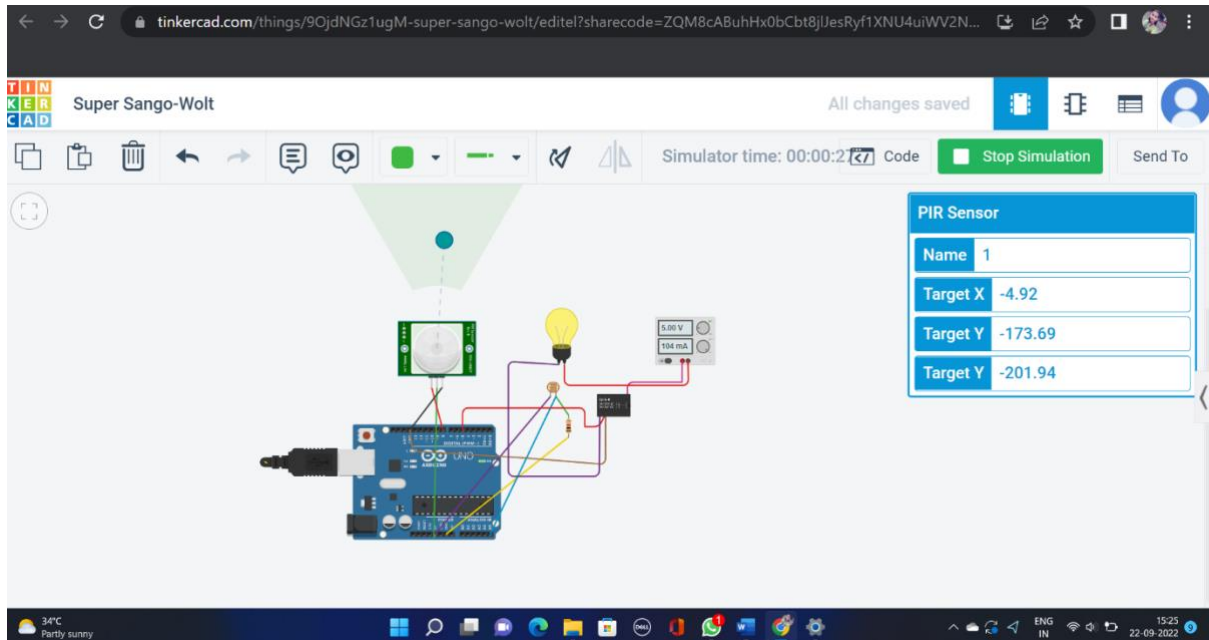
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DIAGRAM:



CIRCUIT DIAGRAM:





CODE:

```
float x,y ;  
void setup ()  
{  
    pinMode( 8, INPUT);  
    pinMode( 5, OUTPUT);  
    pinMode( A5, INPUT);  
    Serial.begin(9600);  
}  
void loop ()  
{  
    x= digitalRead(8);  
    y= analogRead(A5);  
    Serial.println(x);  
    Serial.println(y);  
    if ( (x>0) && (y<550))  
    {  
        digitalWrite(5, HIGH);  
        delay (5000);  
    }  
    else  
        digitalWrite(5, 0);  
}
```

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