

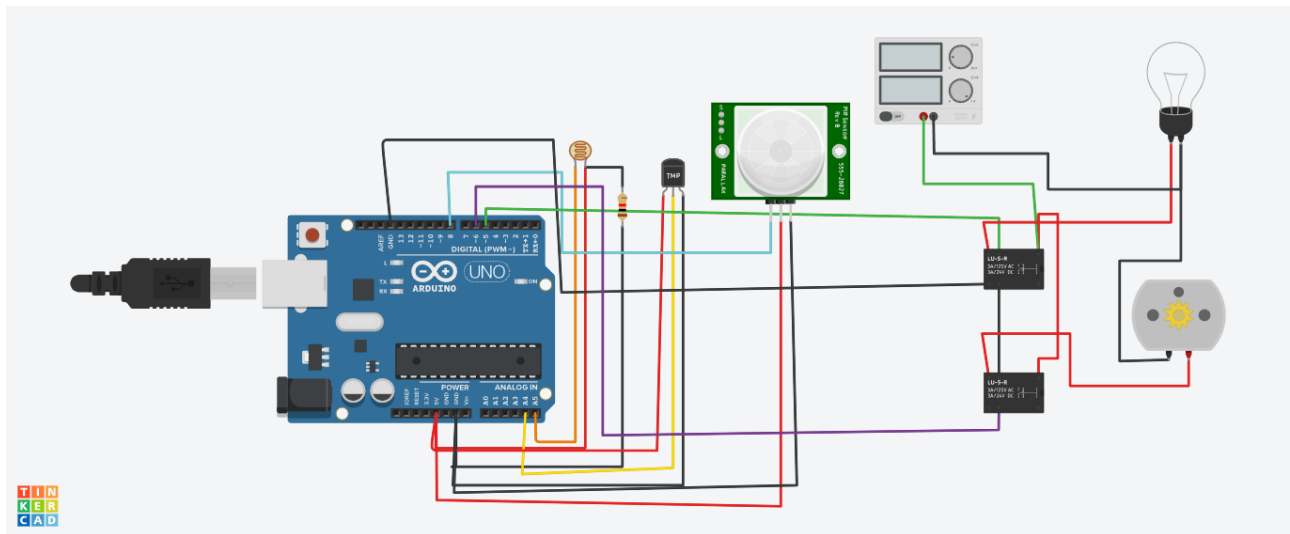
BATCH NUMBER: B7-1A3E

SUBMITTED BY: VARSHA S

ROLL NUMBER: 9517201903171

SMART HOME AUTOMATION :

CIRCUIT DESIGN:



```
float x,y,z,temp;
```

```
void setup()
```

```
{
```

```
  pinMode(8, INPUT);
```

```
  pinMode(5, OUTPUT);
```

```
  pinMode(6, OUTPUT);
```

```
  pinMode(A5, INPUT);
```

```
  pinMode(A4, INPUT);
```

```
  Serial.begin(9600);
```

```
}  
  
void loop()  
{  
    x= digitalRead(8);  
    y= analogRead(A5);  
    z= analogRead(A4);  
    Serial.println(x);  
    Serial.println(y);  
    Serial.println(z);  
    temp = (double)z / 1024;  
    temp = temp * 5;  
    temp = temp - 0.5;  
    temp = temp * 100;  
    if ( (x>0) )  
    {  
        if ((y<550)&&(temp>30))  
        {  
            digitalWrite(5, HIGH);  
            digitalWrite(6, HIGH);  
        }  
        else if((y<550)&&(temp<30))  
        {  
            digitalWrite(5, HIGH);  
            digitalWrite(6, LOW);  
        }  
    }
```

```
else if((y>550)&&(temp>30))
{
    digitalWrite(5, LOW);
    digitalWrite(6, HIGH);
}
else if((y>550)&&(temp<30))
{
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
}
}
else
{
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
}
}
```