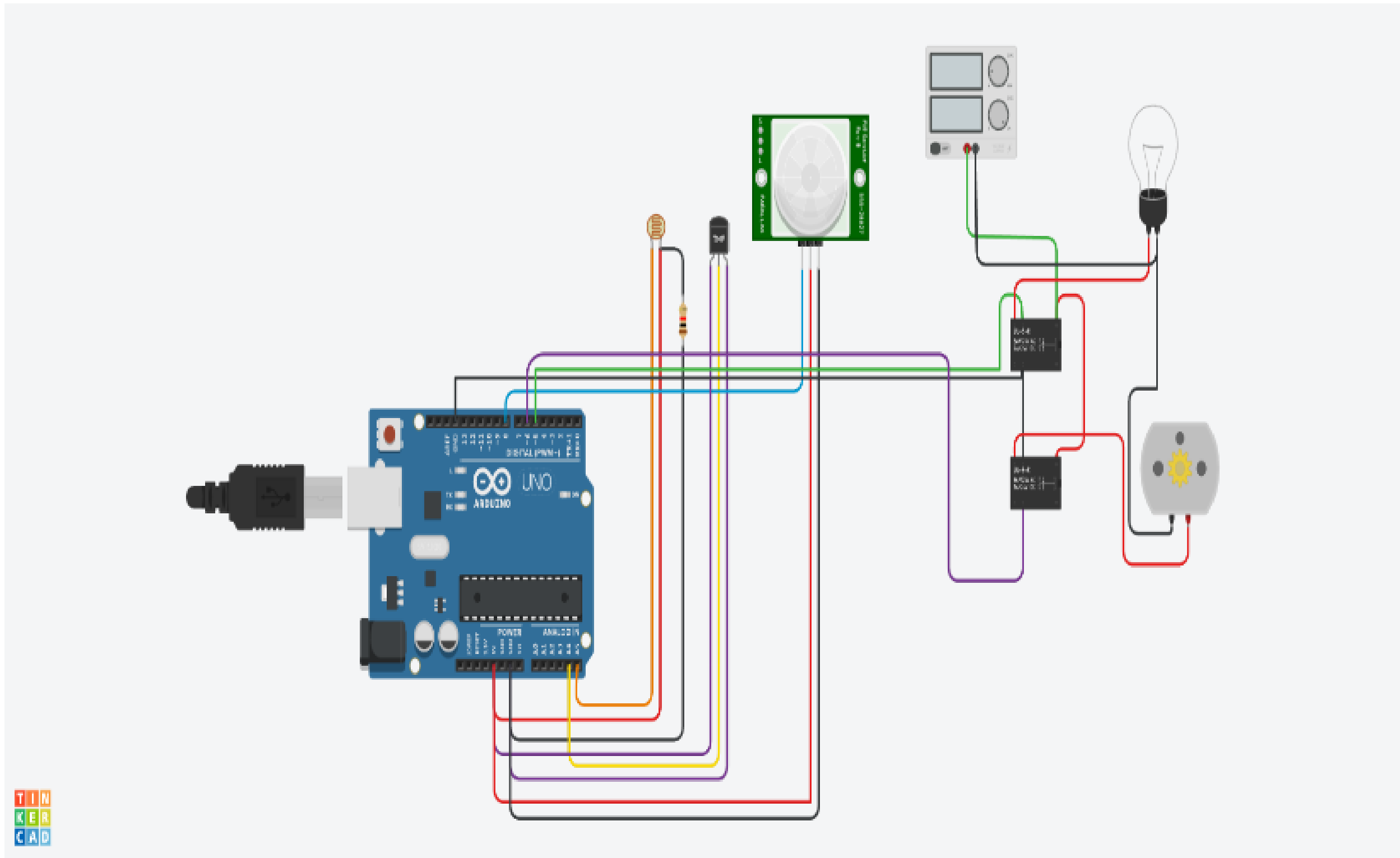


# ASSIGNMENT 1

## *A Smart Home in wokwi with sensors , led , buzzer*



### **CODE:**

```
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, HIGH);  
    digitalWrite(6, LOW);  
}  
}  
else  
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, LOW);  
}  
}
```

**SCREENSHOTS:**

