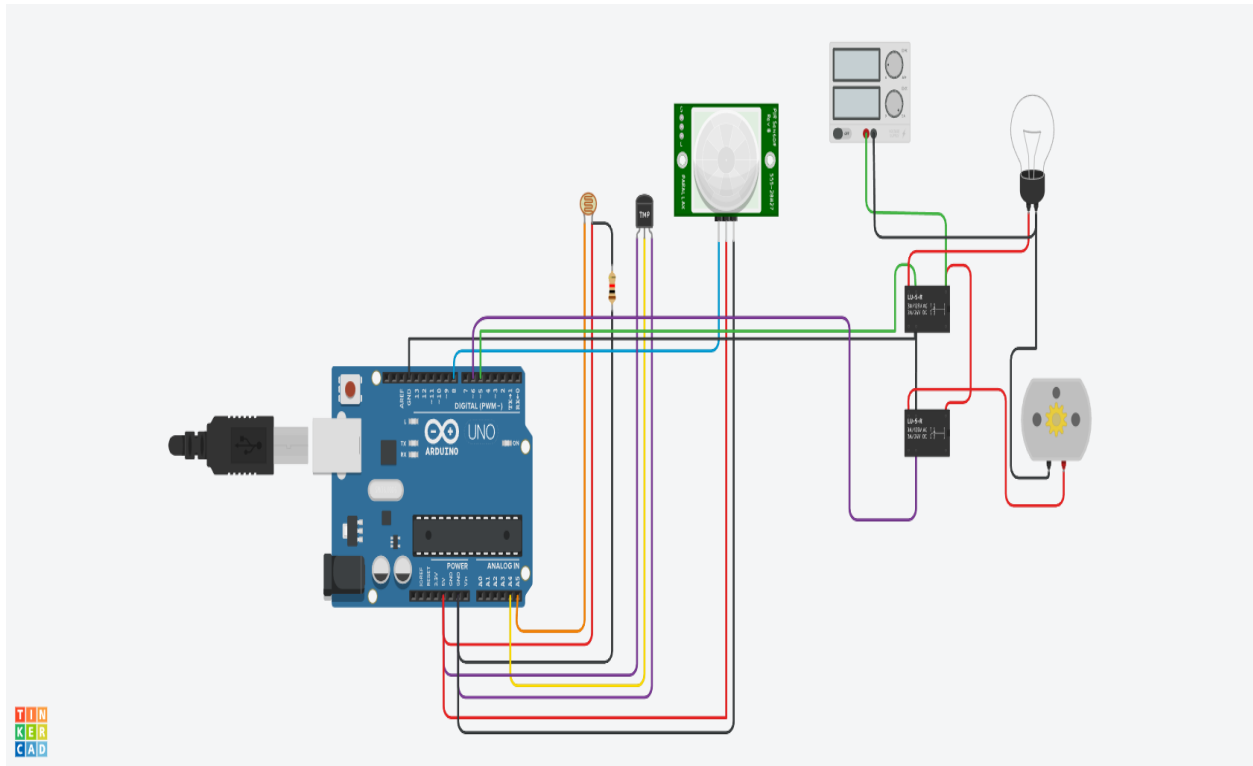


ASSIGNMENT 1

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:

