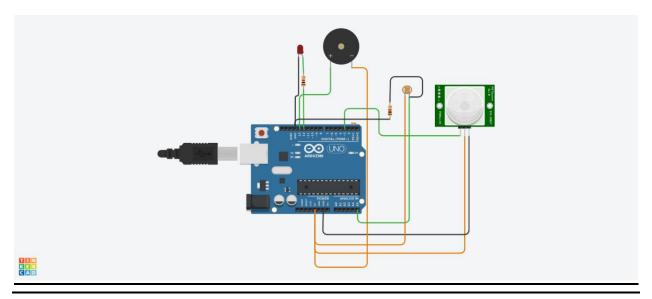
#### **IBM**

# Smart Home Automation Assignment – 1

# **Tinker Cad:**

https://www.tinkercad.com/things/j8TqlR2TaL3-super-lahdi-allis/editel?sharecode=GzB22dlHxG5dzx6WNwoDoJVqukyRNnoFcpyNVHVuXhw

#### **Circuit Diagram:**



### **Source Code:**

```
int led = 12;
int buzzer = 13;
int Msensor = 3;
int Lsensor = A5;
int Lval = 0;
int Mval = 0;
```

int Threshold = 400;

```
void setup() {
pinMode(led, OUTPUT);
pinMode(buzzer, OUTPUT);
pinMode(Lsensor, INPUT);
pinMode(Msensor, INPUT);
Serial.begin(9600);
}
void loop()
{
delay(1000);
Serial.println("!!!!!!!!!!!!!!!!!!");
Lval = analogRead(Lsensor);
Serial.println(Lval); //Light Intensity
if (Lval > Threshold)
{
 digitalWrite(led, LOW);
 Serial.println("Day Time");
}
else
{
  digitalWrite(led, HIGH);
        Serial.println("Night Time");
}
Mval = digitalRead(Msensor);
if(Mval == HIGH)
{
 tone(buzzer,1000);
```

```
Serial.println("Motion is Detected");
}
else
{
  tone(buzzer,0);
  Serial.println("No Motion");
}
```