

# IBM

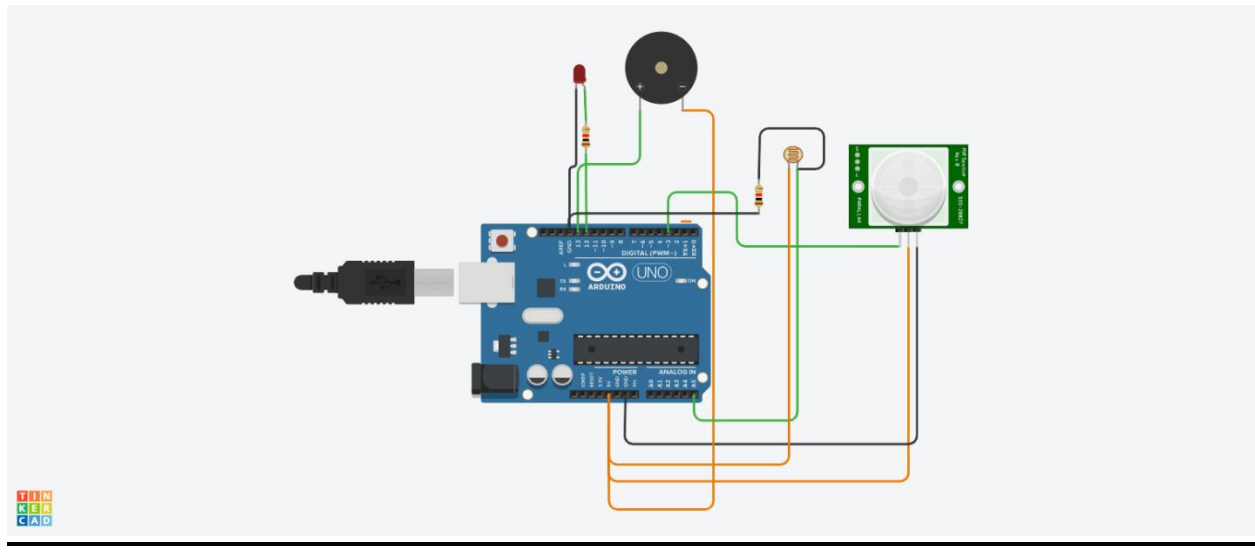
## Smart Home Automation Assignment – 1

### Tinker Cad:

<https://www.tinkercad.com/things/j8TqIR2TaL3-super-lahdi-allis/editel?sharecode=GzB22dIHxG5dxx6WNwoDoJVqukyRNnoFcpyNVHVuXhw>

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### 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 Detected");
  }
}

```

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

Done By: Rishva R