Assignment -1

Assignment Date	19 September 2022
Student Name	Dhinesh P
Student Register Number	422719106002
Maximum Marks	2 Marks

```
// Tinkercad  Arduino : Automatic Room Lightning System
Int LightSensorVal = 0; //Input Sensor
Int PIRSensorVal = 0; //Input S
Int RelayOutputVal = 0; //Output Relay
Void setup()
{
pinMode(A0, INPUT); // Read the LDR sensor Value digital Input
pinMode(2, INPUT); // Read the PIR motion sensor value digital Input
pinMode(8, OUTPUT); // Write the Relay output value, digital output
Serial.begin(9600);
}
Void loop()
{
LightSensorVal = analogRead(A0);
PIRSensorVal = digitalRead(2);
RelayOutputVal = 8;
If (LightSensorVal < 600) {
If (PIRSensorVal == HIGH) {
digitalWrite(8, HIGH);
delay(5000); // Wait for 5000 millisecond(s)
} else {
digitalWrite(8, LOW);
delay(1000); // Wait for 1000 millisecond(s)
}
} else {
digitalWrite(8, LOW);
Serial.println(LightSensorVal);
Delay(300); // Wait for 300 millisecond(s)
}
}
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```
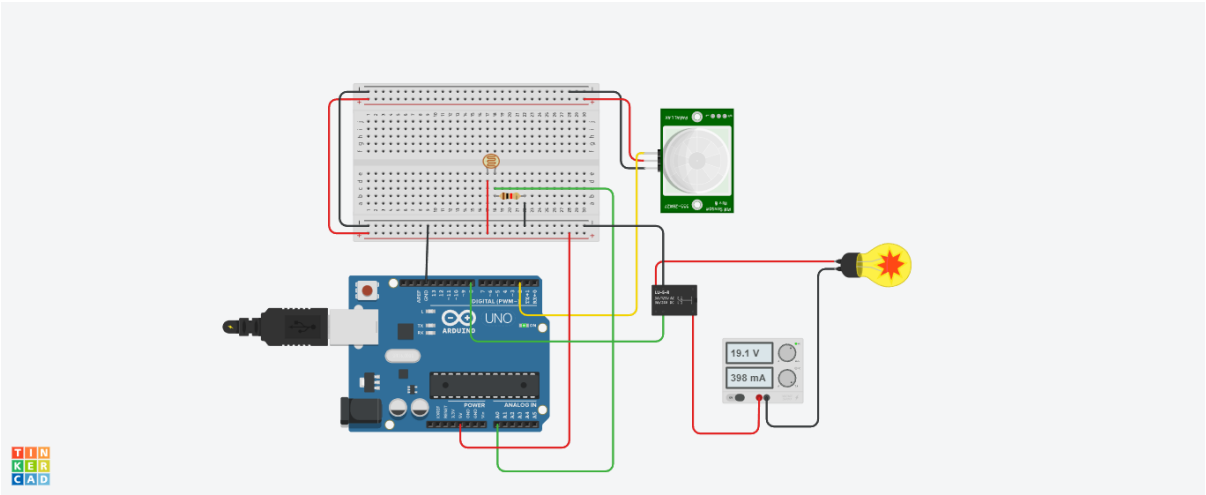
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