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// 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);
    }
}

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```
Delay(300); // Wait for 300 millisecond(s)
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}
```

```
}
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