

Assignment -1
Python Programming

Assignment Date	19 September 2022
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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)
  }
}
```

Footer

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