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Batch: Q-10

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Assignment no : 4

Problem Statement :Problem Statement: Develop a Smart Light System (Light that automatically switches on in evening and gets off in morning) using open source Hardware platform like Arduino and some sensors (Light dependent resistor) and actuator (An LED).

CODE :
Code.txt

```
int sensorValue = 0;

void setup()
{
  pinMode(A0, INPUT);
  Serial.begin(9600);

  pinMode(9, OUTPUT);
}

void loop()
{
 // read the value from the sensor
 sensorValue = analogRead(A0);
 // print the sensor reading so you know its range
 Serial.println(sensorValue);
 // map the sensor reading to a range for the LED
 analogWrite(9, map(sensorValue, 1023, 0, 0, 255));
 delay(100); // Wait for 100 millisecond(s)
}
```

OUTPUT :