ASSIGNMENT-4.

AIM: Develop a smart light system.

PROBLEM STATEMENT: Develop a smart light system using source H/w platform like arduino & some sensors

THEORY:

- ARDUINO:

- It is an open-source electronics platforms based on easy-to-use H/w & S/w

- Arduino boards are able to read i/ps lights sensors finger on button, etc.

- COMPONENTS:

i. LDR:

- Light dependant resistor
- Resistivity is a func" of incident electromagnet radia"
- Light sensitive device

ii. Arduino:
Used to on/off the bulb light

iii. 4.7k resistor

iv. Bread board

v. Connecting wires

vi. Bulb LED

• CONNECTIONS:
- Arduino 3rd pin connected to LED bulb
- GND connected to LED -ve thr. 4.7K
- A0 pin connected to LDR other end
- GND is connected to LDR other end with 4.7k

• ADVANTAGES:
- Ready to use
- Effortless func^n
- Large community
- examples of codes

• DISADVANTAGES:
- Structure
- cost

CONCLUSION:
Thus we have developed " smart light syste