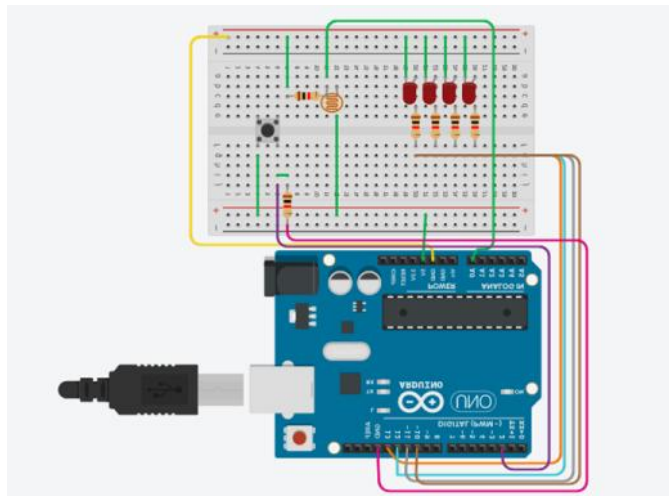AIM:- Design an automatic night lighting system (with 4 connected leds) such the system is only activated when the master control switch is pressed. a) below 50% value of full brightness all leds constantly on. b) above 50% value of full brightness only first led is on.

Circuit Diagram:

Theory:
Concept Used:
- Ohm's law
- Kirchhoff's rule
- For loop

Learning & Observations:
- Working of Arduino
- Application of LDR

Problems & Troubleshooting:
- Port selection
- Loose connections
- Error in coding

Precautions:
- Connections should be tight
- Port and board selection should be correct
- Code should be written properly

Learning Outcomes:

Working of Circuit was verified uploading the program.