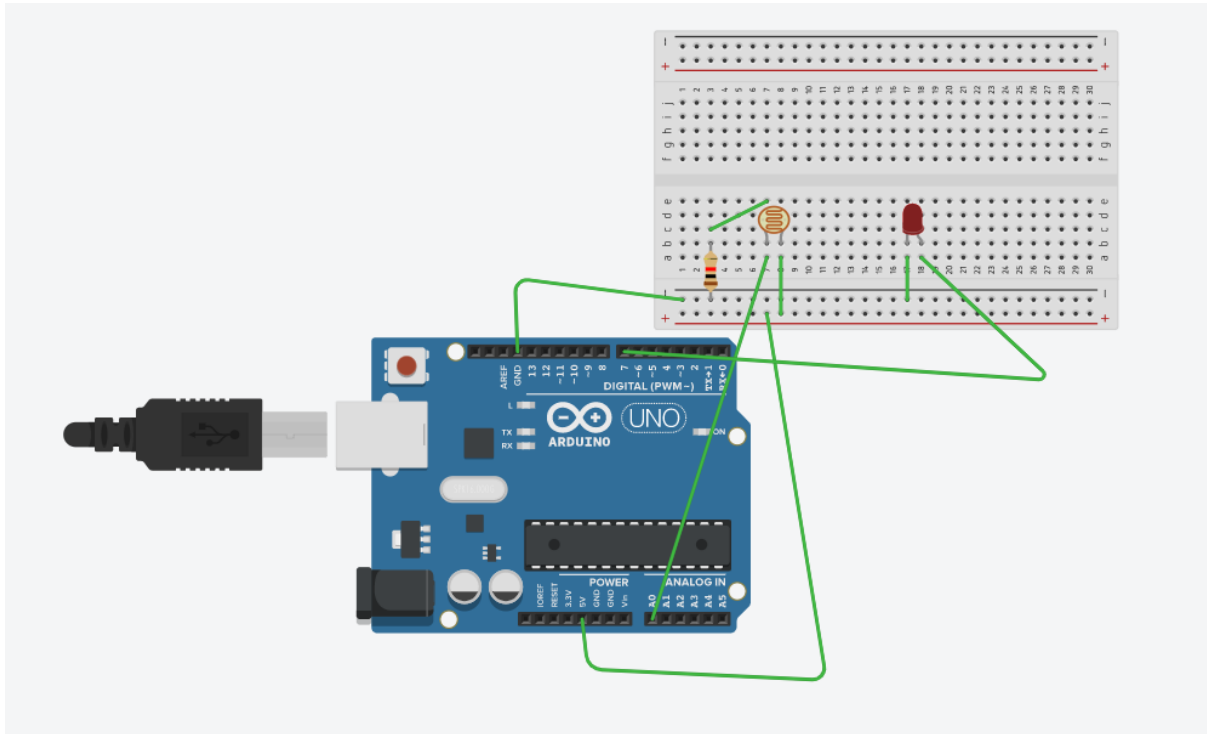


## EXPERIMENT : 4 **AUTOMATIC NIGHT LAMP**

### DIAGRAM:-



### THEORY:

**CONCEPT USED-** The concept of the following experiment is that, the led will be bright when there is darkness around LDR. Led goes off when LDR is kept in brightness. LDR is a type of resistance which works according to brightness level.

### **LEARNING AND OBSERVATIONS-**

- ➔ We learn the use of LDR. And its working by change in brightness around it.

- ➔ We learn how to code in arduino.
- ➔ We learn about the use of all basic functions and for loop.

### **PROBLEMS AND TROUBLESHOOTING –**

- ➔ Brightness level above LDR should be accurately maintained for better results.
- ➔ While during connections it is important to do all connection in a sequence manner otherwise for loop will not be used while during program.

### **PRECAUTIONS -**

- ➔ Wiring should be done properly, neatly.
- ➔ Do not use excess wires try to reduce number of wires used.

### **LEARNING OUTCOMES –**

We learn to code and how to make circuit using arduino.