**21DS631 -Embedded RTOS**

**Practical Assignment 1**

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Diagram

Description automatically generated

**Result:**

I have made a voltage divider circuit using LDR and resistor. The voltage divider output is feed to the analog pin of the Arduino. The analog Pin senses the voltage and gives some analog value to Arduino. The analog value changes according to the resistance of LDR. So, if is dark over the LDR, its resistance get increased and hence the voltage value (analog value) decreases. Hence, the analog value vary the PWM output or the duty cycle, and duty cycle is further proportional to intensity of light of power LED. So the light over the LDR will automatically control the intensity of Power LED.