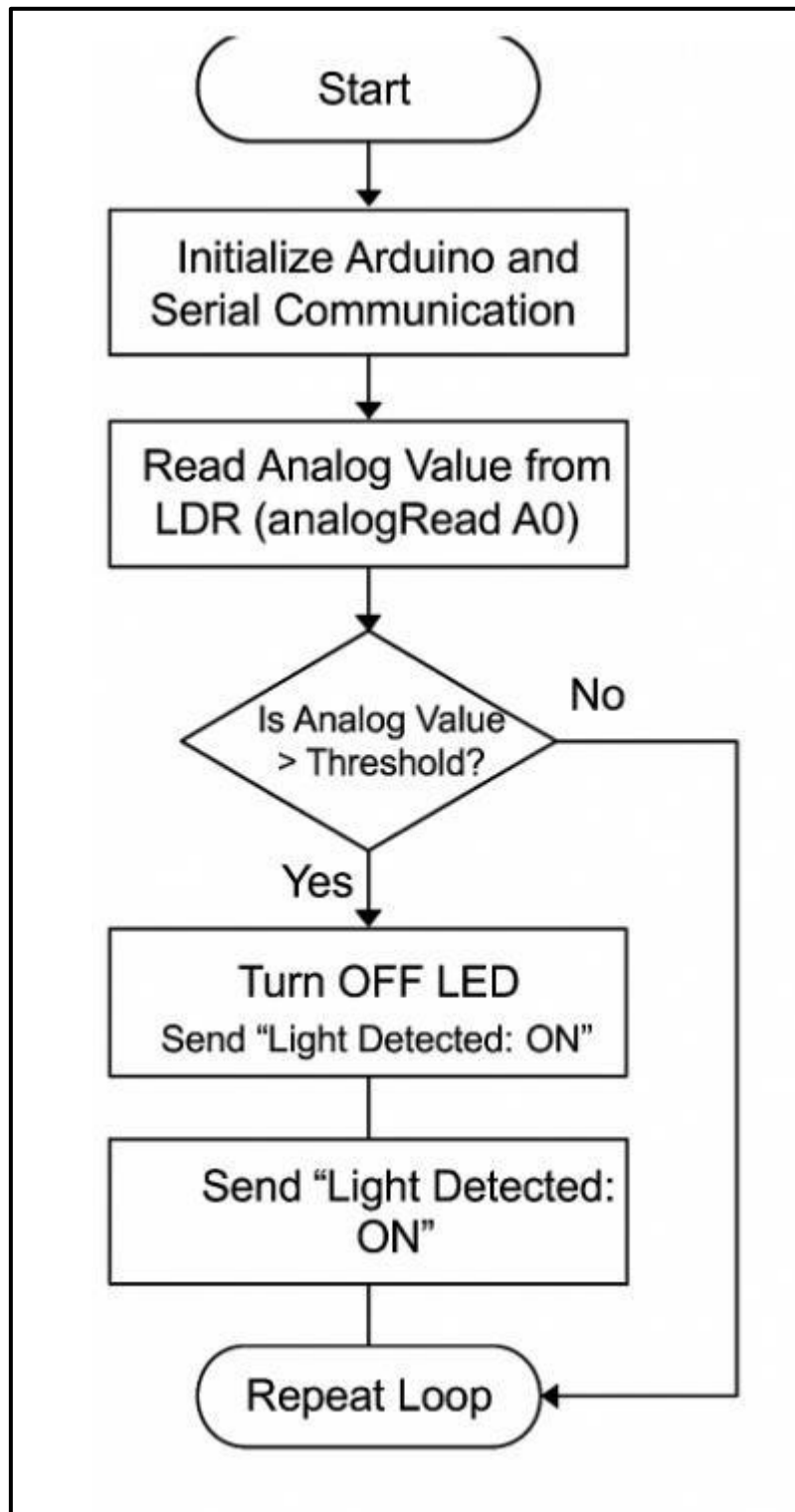


## Flow chart for Light Detection System:



▪ **Inputs:**

Component	Type	Pin/Connection	Description
LDR (Light Dependent Resistor)	Analog Input	A0 (Analog Pin)	Reads light intensity via voltage divider.
10k $\Omega$ Resistor	Passive Input	Connected in voltage divider	Helps generate voltage based on LDR resistance.

▪ **Outputs:**

Component	Type	Connection	Description
LED	Digital Output	D13 (or any Digital Pin)	Turns ON in darkness, OFF in light.
Serial TX	Digital Output	TX (Pin 1)	Sends messages via serial communication.
MAX232 IC	Signal Converter	Connected to TX pin and RS-232 cable	Converts Arduino TX signal to RS-232 levels.
RS-232 Cable	Communication Line	COM Port (PC)	Transfers serial data to PC (PuTTY/Monitor).

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