

Homework
L3 NIT
Tr . N. Eraste

Scenario:

Jean is a student in **Electronics Level 3**. While assembling a simple electronic circuit using a **battery and an LED**, he notices that the LED burns out when connected directly to the power supply. His teacher explains that a **resistor** is required to protect the LED and control the current flowing in the circuit.

Questions

- a) What is a **resistor**?
- b) Why is a resistor important in Jean's circuit?
- c) State **two main functions** of a resistor.
- d) Mention **two units** related to resistors and explain them.
- e) Give **two examples of where resistors are used in real life**.