

Lab report - 1: Introduction to Circuit Elements and Variables

Circuit Diagram:

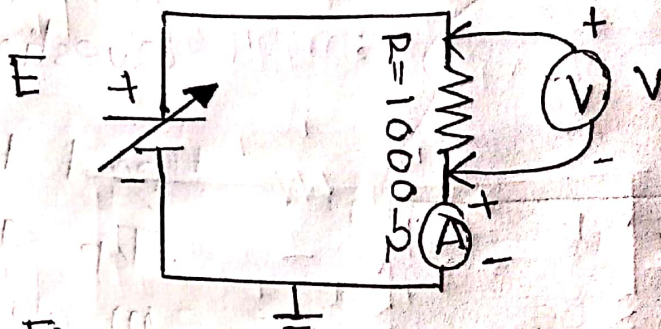


Figure: Circuit for experiment

Pre-Lab Report Questions:

Given,

$E = 5, 6, 7, 8, 9, 10 \text{ V}$ and $R = 1000 \Omega$

$$I = \frac{V}{R} = \frac{5 \text{ V}}{1000 \Omega} = 5 \text{ mA}$$

$$I = 6 \text{ mA} \text{ [when, } V = 6 \text{ V]}$$

$$I = 7 \text{ mA} \text{ [when, } V = 7 \text{ V]}$$

$$I = 8 \text{ mA} \text{ [when, } V = 8 \text{ V]}$$

$$I = 9 \text{ mA} \text{ [when, } V = 9 \text{ V]}$$

$$I = 10 \text{ mA} \text{ [when, } V = 10 \text{ V]}$$