

Lab No: 04

Name of the Experiment: Verification of Superposition Principle

ID: 20301138

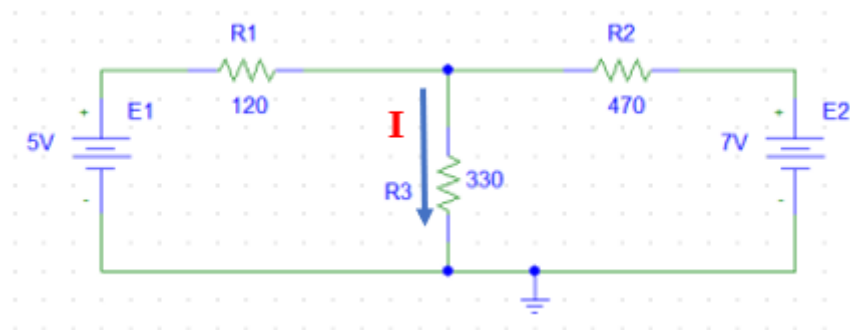
Name: Md . Bokhtiar Rahman Juboraz

Section: 03

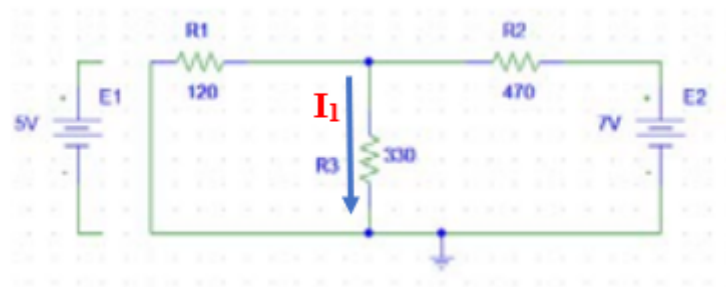
Date: 27-02-2022

Circuit 1

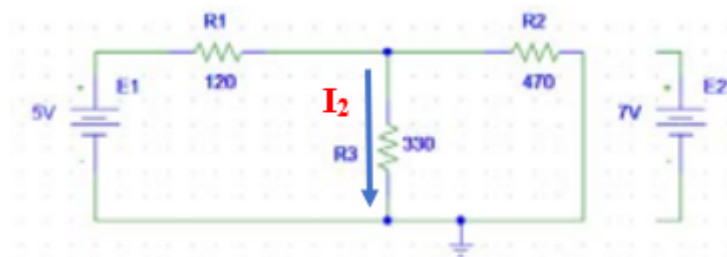
Given Circuit:



When only  $E_2$  is active:



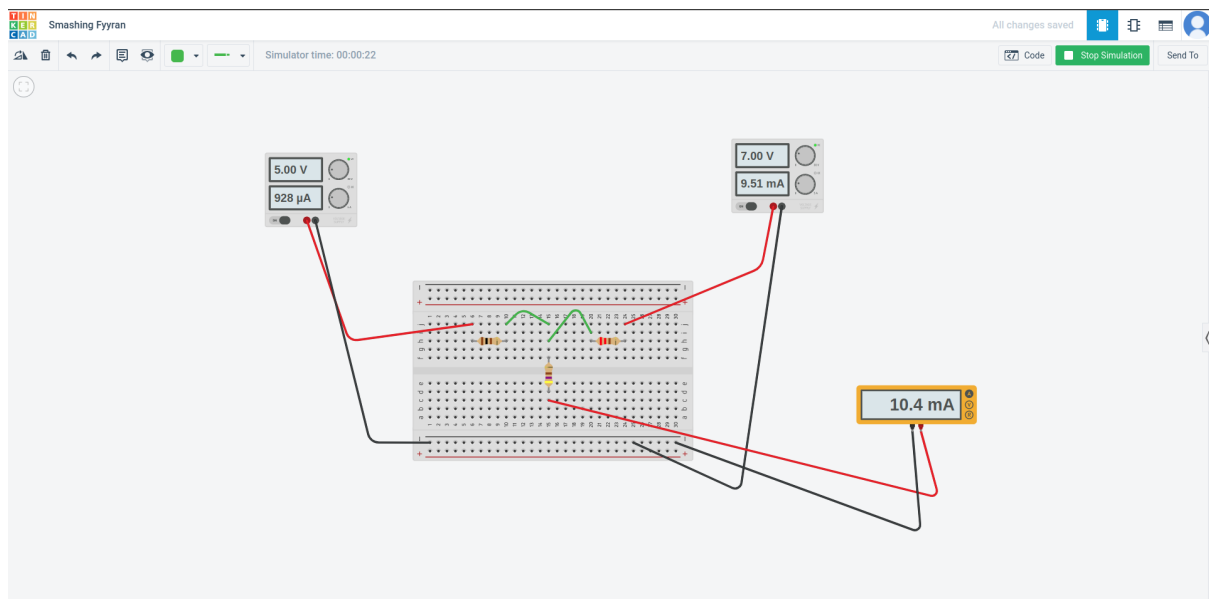
When only  $E_1$  is active:



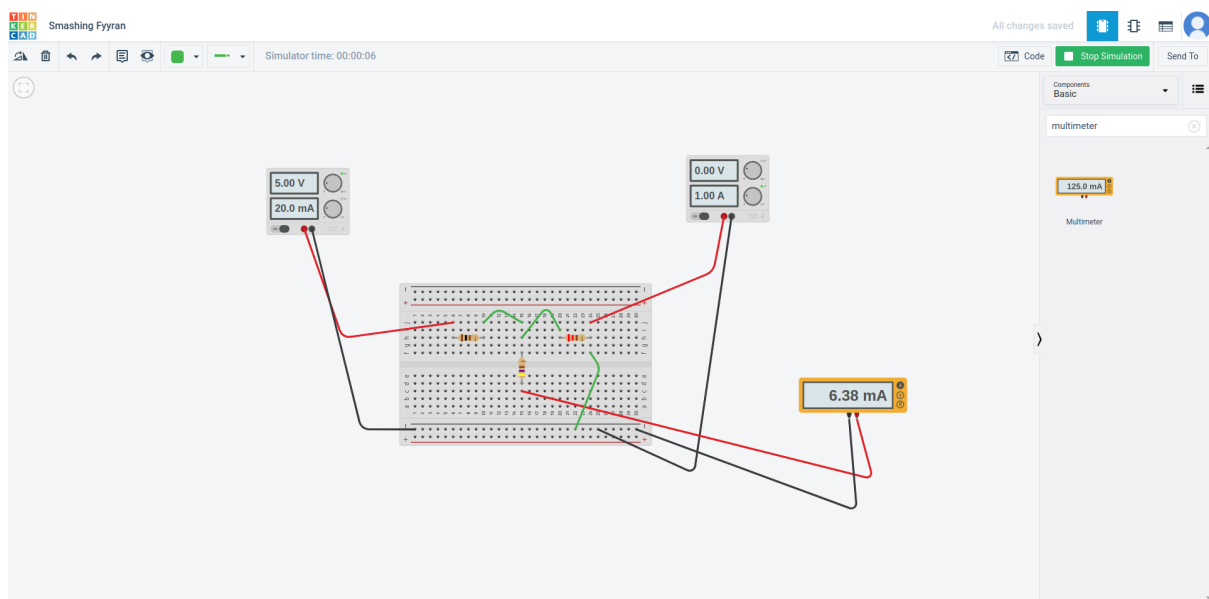
Personal Circuit:

*Insert the full screen image of your circuit here. [Full screenshot, not just the circuit]*

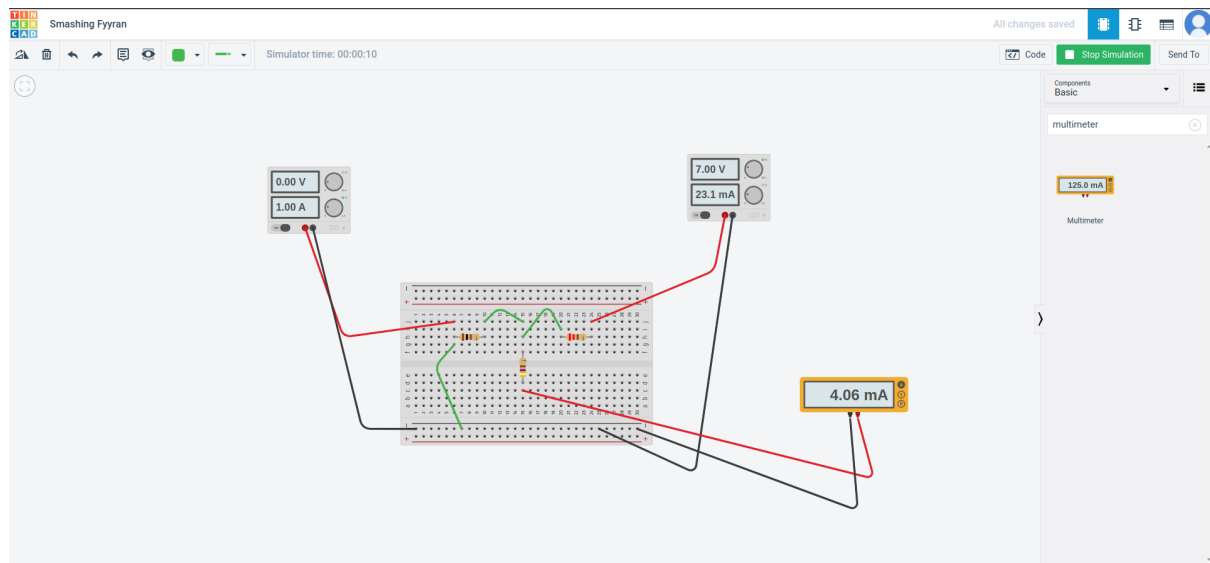
Given circuit:



When only  $E_1$  is active:



When only  $E_2$  is active:



Result:

No. of Observation	$R_1$	$R_2$	$R_3$	I (when both $E_1$ and $E_2$ are active)	$I_1$ (when only $E_1$ is active)	$I_2$ (when only $E_2$ is active)	$I_1 + I_2$
1.	100 $\Omega$	220 $\Omega$	470 $\Omega$	10.4 A	6.38A	4.06A	10.44 A
2.	1.2 K $\Omega$	2.2 K $\Omega$	3.3 K $\Omega$	1.40 mA	794 $\mu$ A	606 $\mu$ A	1400 $\mu$ A