

Circuit Simulation (Lab 10)

Proteus Simulation Lab

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1.0 PURPOSE

- Using Proteus to simulate circuits.
- Identify (if any) errors in your calculations.

2.0 EQUIPMENT NEEDED

- (1x) computer for Proteus software.

3.0 THEORY

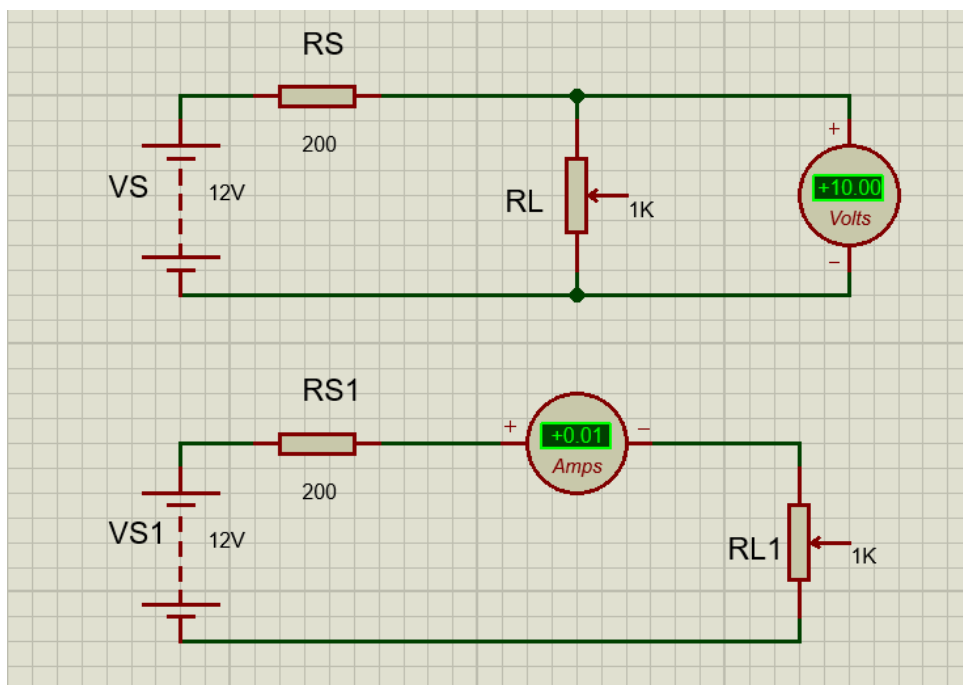
Using the Proteus software

- Referring to various **tutorials** and **videos**, we applied that knowledge to create the circuits below.

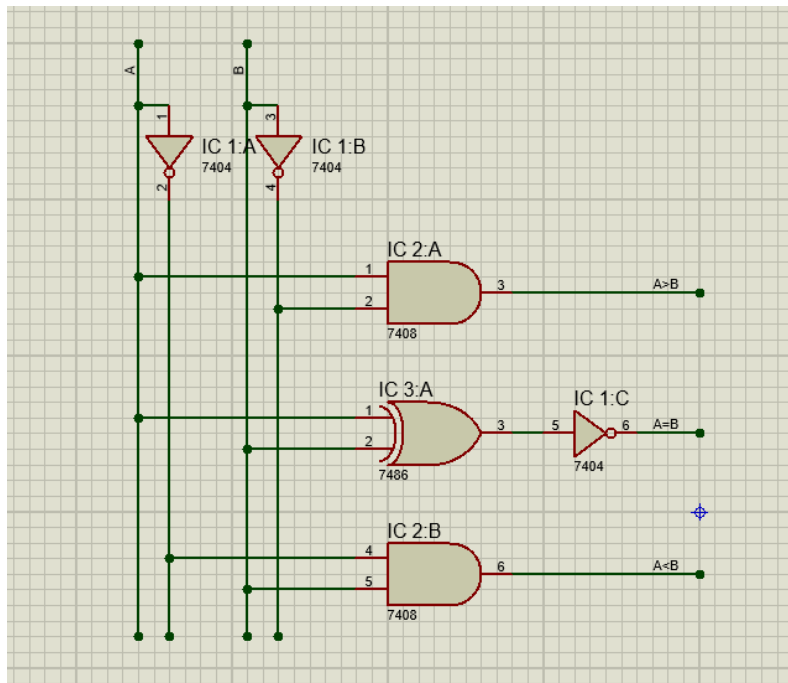
4.0 EXPERIMENTAL RESULTS

Results from the Procedure section:

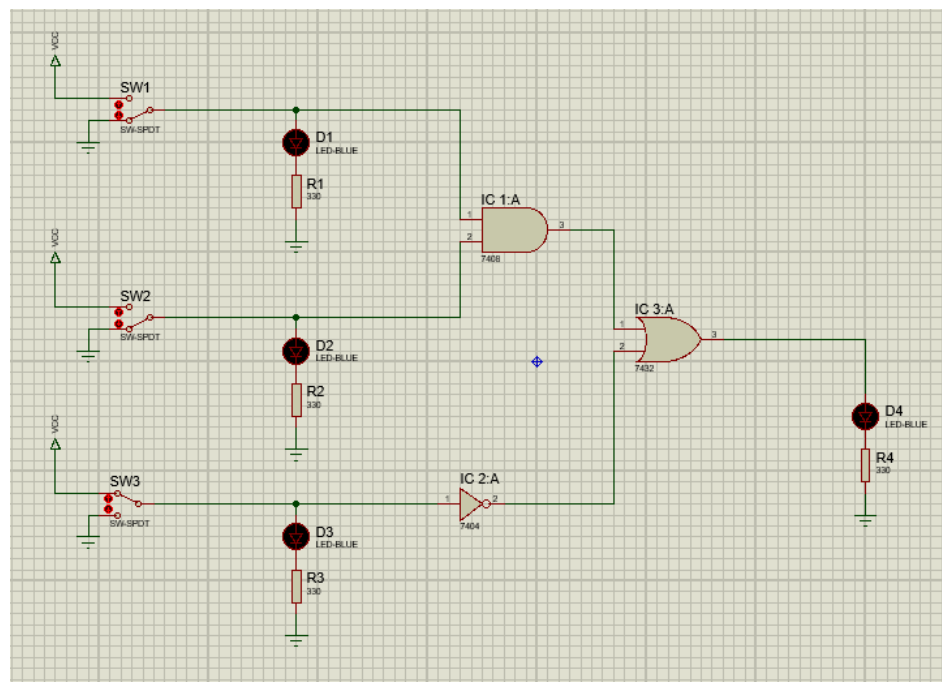
First Circuit:



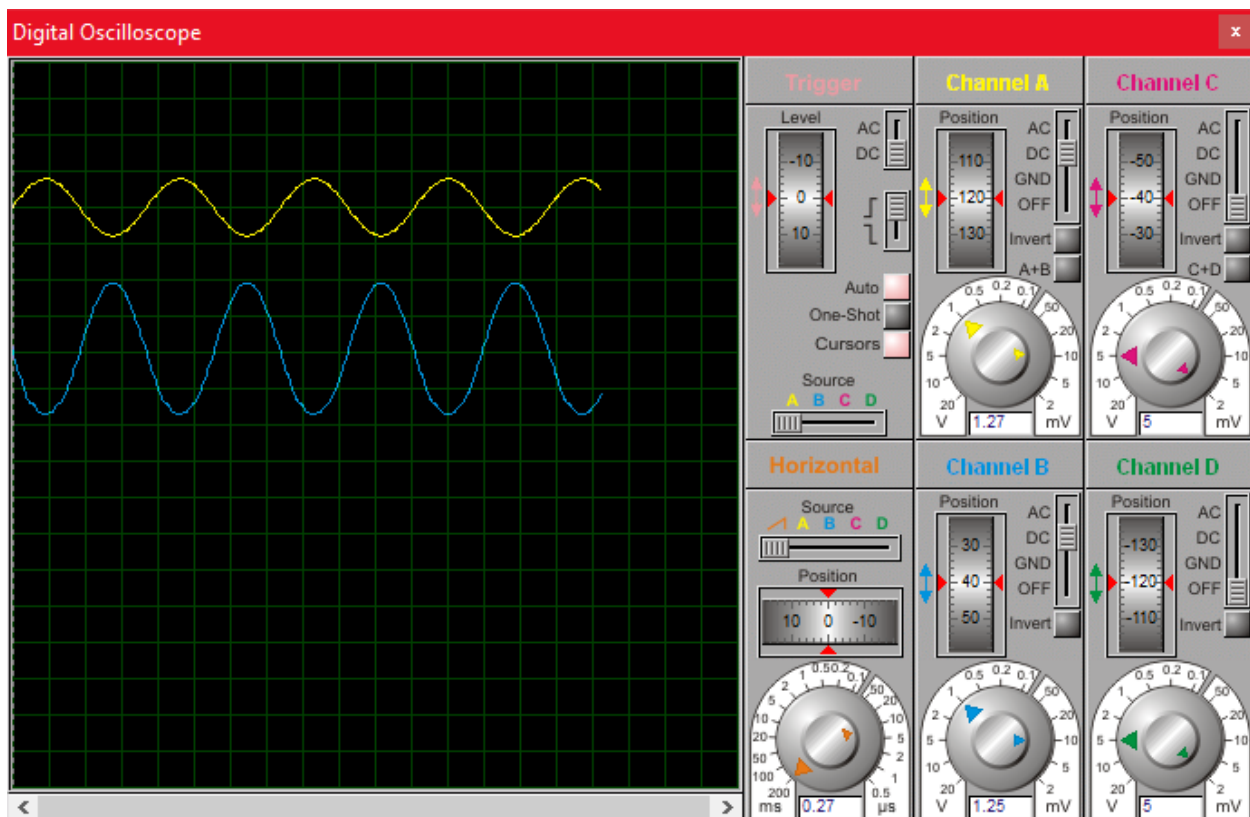
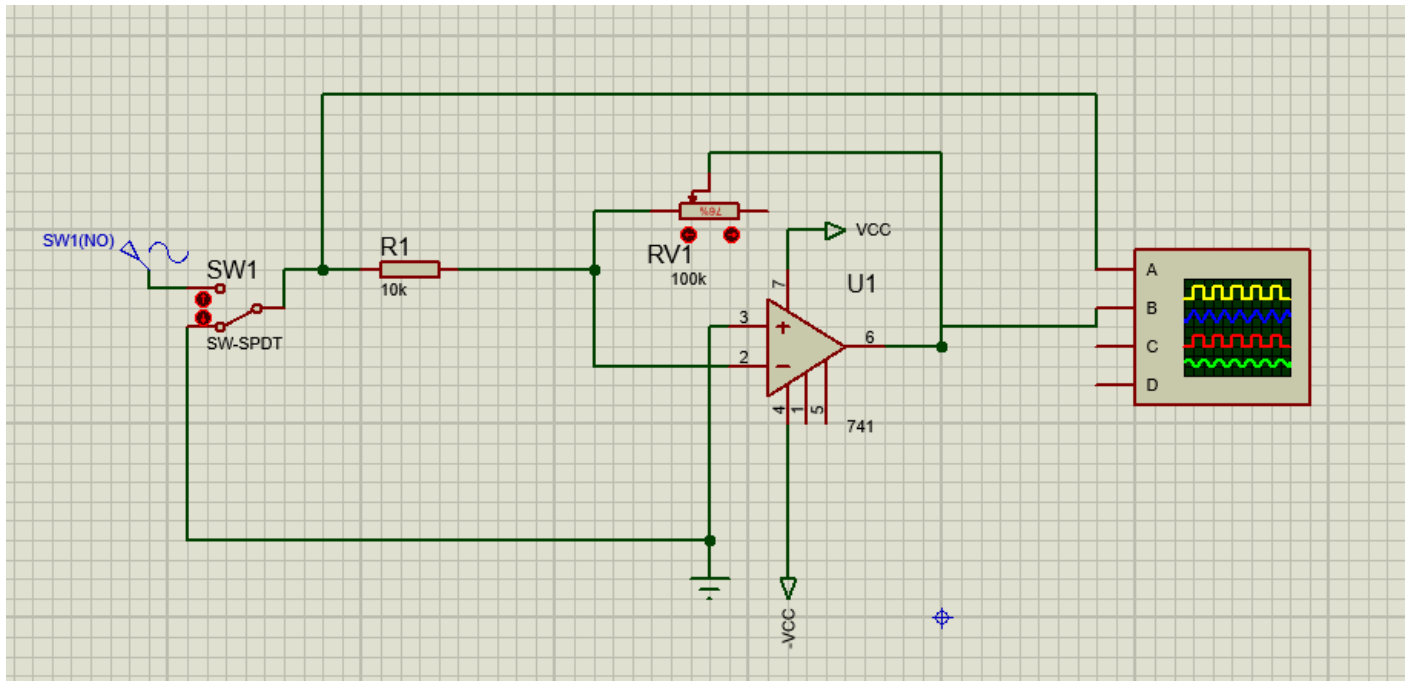
Second Circuit:



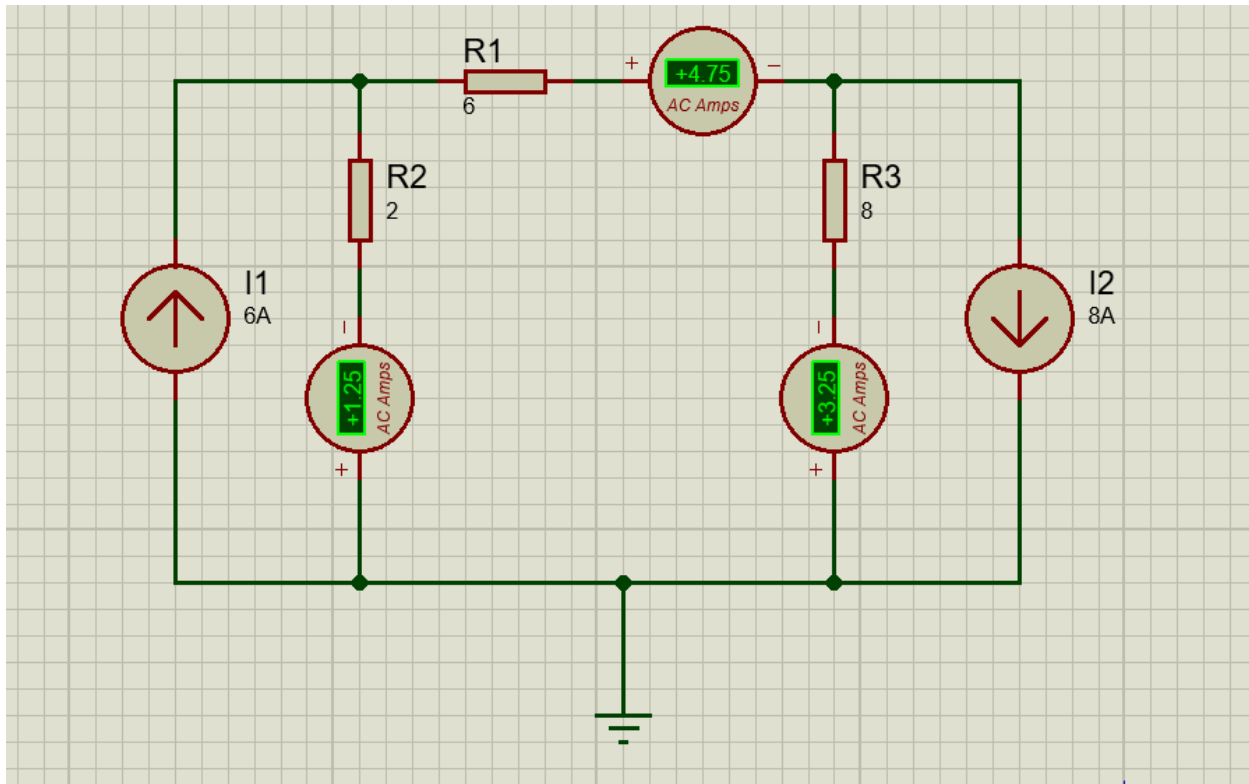
Third Circuit:



Fourth Circuit:



Fifth Circuit:



Verify:

$V_A = 2.5V$

$V_B = -26V$

$I_1 = 1.25A$

$I_2 = 4.75A$

$I_3 = 3.25A$

5.0 CONCLUSION

- Purpose of this lab has been achieved.
- Understood the software *Proteus*.
- Understood how to run simulations using *Proteus*.
- Understood how to check for errors.
- Learned some advanced features in *Proteus*.