**Corrections to be made :: (KCL Experiment-: Need to work on Instructions tab and graph.)**

1. Graph is not plotting after values added to the table.
2. Power button should only switch ON after we make connections and set the values of resistance R1, R2, R3.
3. Write text Power below power button in the power supply and A1 A2 A3 in the ammeters.
4. write **ACTION BUTTONS** in the button panel and **SLIDERS** in the sliders panel and also write heading **Observation table** in the table.
5. 0V text should be fixed in the display and increase the text field of the power supply.
6. Increase the size of the labels they are not readable.
7. Also to fix the nodes properly in their position and also to properly aligned the positive and negative signs.
8. Reset button should reset the whole page.

Instructions to write in the Instruction tab ::

1. Make connections by dragging nodes from apparatus to the circuit.

(a) Connect power supply to the left most nodes of the circuit (1-9, 2-10).

(b) Connect ammeters (3-11, 4-12) and (5-13, 6-14) and (7-15, 8-16) or you can connect any ammeter to any resistance in circuit.

(c) Click on the label to delete all the connections for the corresponding nodes**.**

3. Check your connections by clicking on the ‘CHECK’ button.

4. Set the values of resistances R1, R2 & R3 by adjusting the sliders on left, these values will remain constant throughout the experiment.

5. Click the ‘Power’ button to turn on the power supply.

6. Now, vary the voltage value by moving the voltage slider to the right side, the readings on the ammeter will change accordingly.

7. Click on the ‘ADD’ button to add the readings to the observation table.

8. Repeat steps 6 and 7 until we reach to the 6th reading (Minimum reading to be taken to plot the graph is 6).

9. Click on the ‘PLOT’ button to display the graph.

10. Click on ‘PRINT’ button to take out the print of the page.

11. Click on ‘RESET’ button to refresh the page.

**KVL Experiment:**

1. Connections are not working.
2. Correct the spelling of **Kirchhoff’s** and write **ACTION BUTTONS** in the button panel and **SLIDERS** in the sliders panel and also write heading **Observation table** in the table.
3. 0V text should be fixed in the display.
4. Increase the size of the labels they are not readable.

5. Same problem with the reset button in this experiment

6. Graph is not plotting

**Power Factor Theorem ::**

1. Connections are not working.
2. Reset button.
3. Increase the size of the labels.
4. Instructions tab needs details.

**Superposition Theorem ::**

1. Write text **MCB** in the MCB and **A1, A2, A3** in the ammeters and **Power** in the power supply .
2. Write heading **Observation Table** in the table.
3. Sliders will only work after we make the right connections
4. Meter needles are coming out from the display
5. After disconnecting current source from the circuit when we are connecting voltage source and checking the connections we are getting invalid connections.
6. When we are connecting the voltage source with the circuit Add button gets disabled
7. Then we will short the voltage source and connect the current source again then we will check the connections and ON the MCB and the power supply and Add the values to the observation table.

**Thevinin Theorem**

1. Change Rl to RL
2. In power supply make (A) as (V)
3. Write heading observation table in the table section
4. In Table section replace Reading section with IL(Reading)
5. 0V should be fixed to display
6. Increase the size of the labels
7. Power supply nodes should have more curviness and goes below the slider.
8. Write Power below the power button
9. After Power on the power supply and connecting the voltmeter the voltage slider is not working.
10. The reading value from the observation table should automatically added to the observed value in the calculations section.
11. Then the user will manually calculate the value of Vth, Rth, RL from the formulae then he will input those values in the text field of the calculations tab, then those values should automatically added to the formulae tab, the result i.e IL should be added to the **calculated value** section below.
12. Add a button in the calculations tab to verify the observed value with the calculated value.
13. If both the values are same then we will have a msg Since, Observed value is equal to Calculated value ,

Hence, Thevenin Theorem is Verified.

1. If values are not similar then we will have a msg Since, Observed value is not equal to Calculated value ,

Hence, Thevenin Theorem is not Verified.