Questions

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1. Let the LED glow (hook or crook).

**Ans:** Yes we did.

1. Pickup 2 (or more) random resistors. Can you combine them to light up another LED (also random?).  
   **Ans:** Yes we did, the light would be dim depending on the resistors.
2. Take a set of 4 resistors and connect them in different configs (series, parallel etc)  
   - Verify voltages & Currents  
   **Ans:** Using PV2 and WG points attaching to the selab breadboard using series and parallel points.  
     
   & therefore plot graphs verifying claims in Ohm’s & Kickoff laws  
   **Ans:**
3. Look up what a capacitor is. What role can it play if added to your circuit in 1 or 2.  
   **Ans:** Capacitor is a device that can store energy in the form of electric charge.   
   Bonus \*\*
4. Now we have a sealab kit which has a “soft control”. Can you control the LED from its environment, enabling it to glow?
5. What’s the highest voltage sourced from your phone?  
   Does sealab allow all that to be available? If yes, how, if not why? **Ans:** The highest voltage from our phones is 5v and See lab allows us to use it.
6. Why use phone/laptop power? Can we use mains directly? **Ans:**Because we will not have the control on the power.