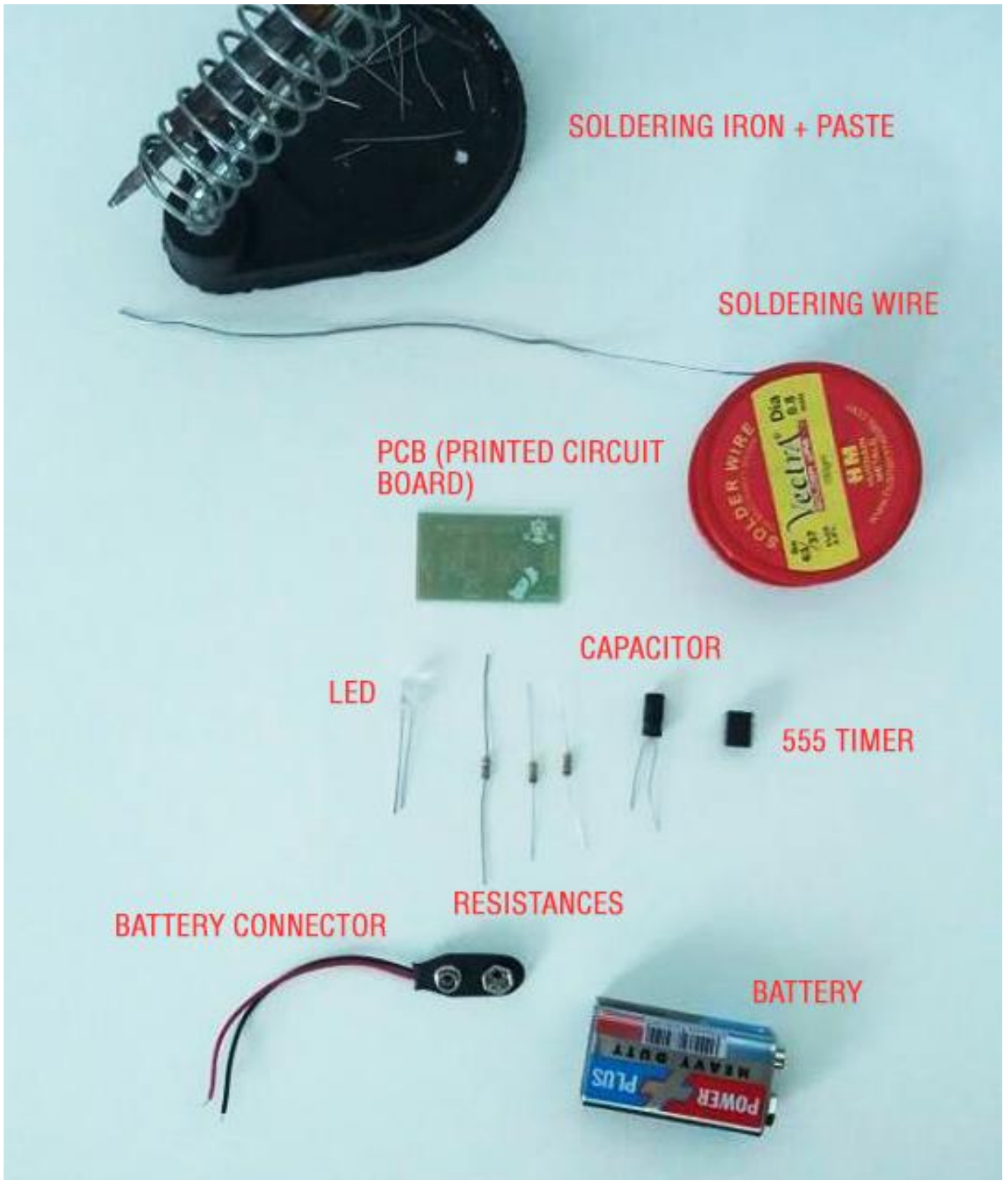


7 LED FLASHER

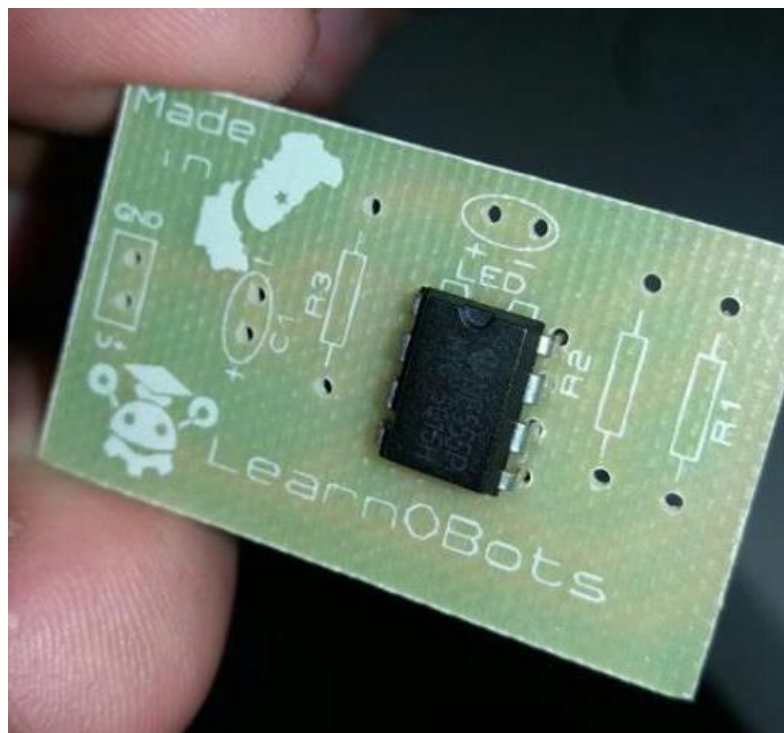
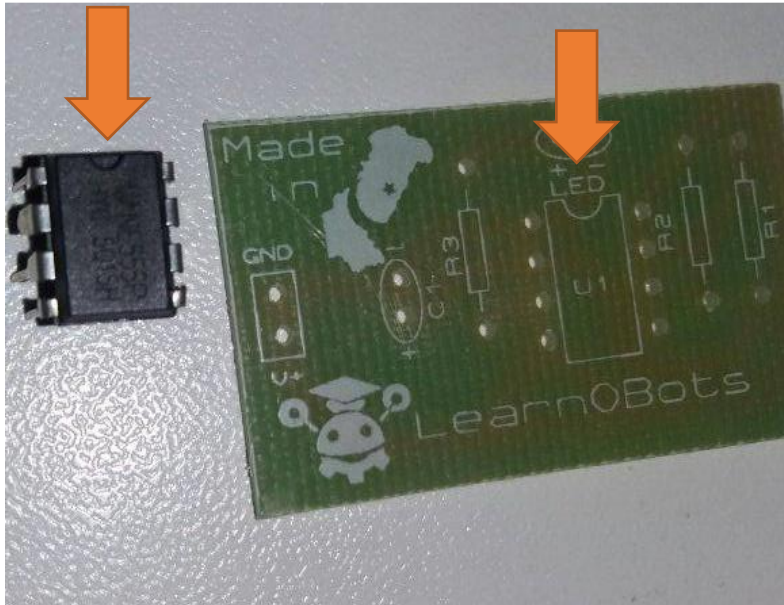


# Instruction Manual for Soldering Kit

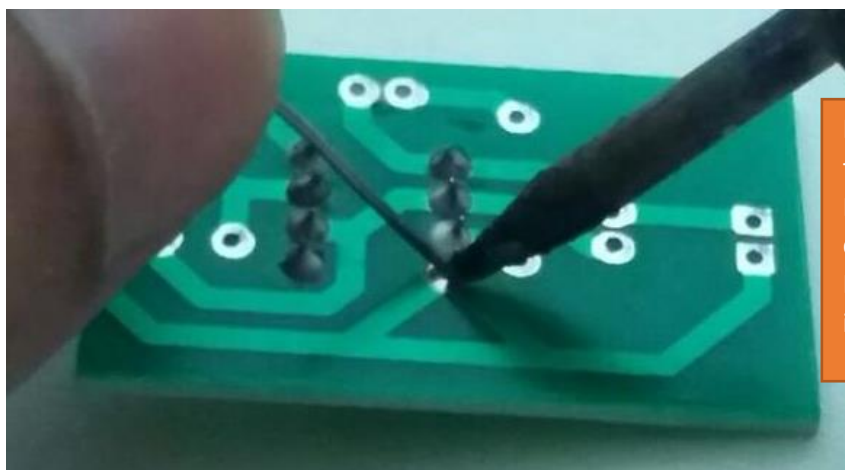
1. Following are the components for this activity:



2. Insert the 555 Timer in the Timer slot on PCB, make sure the Timer is aligned with the PCB, notice the notch on the 555 Timer and align it with the notch on the PCB.

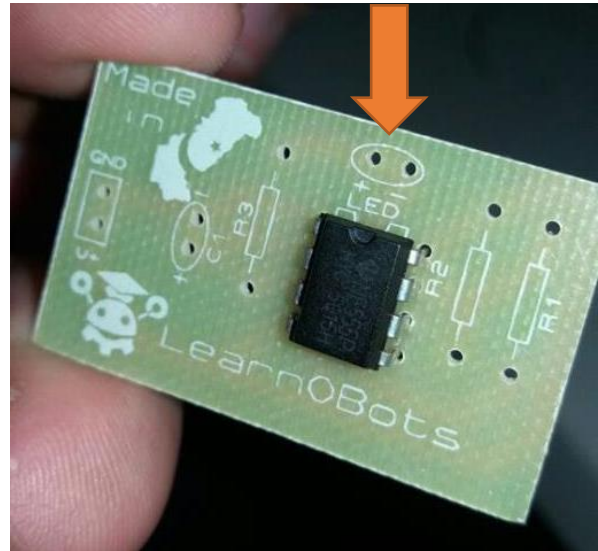
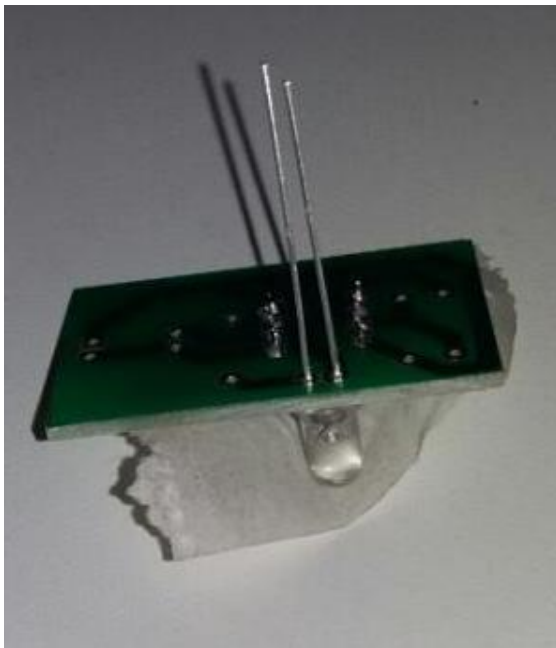


3. Flip the board and solder the legs of the 555 Timer, it has 8 legs and make sure the solders of each leg are independent from each other (no two solders should touch each other)

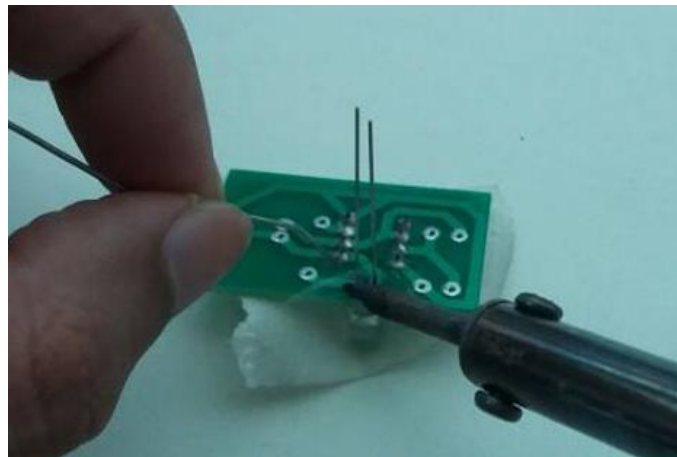


If the component is falling off from the PCB then tape the component to the PCB and easily solder it.

4. Insert the Led, the longer leg should go in the + hole and shorter in the – hole.



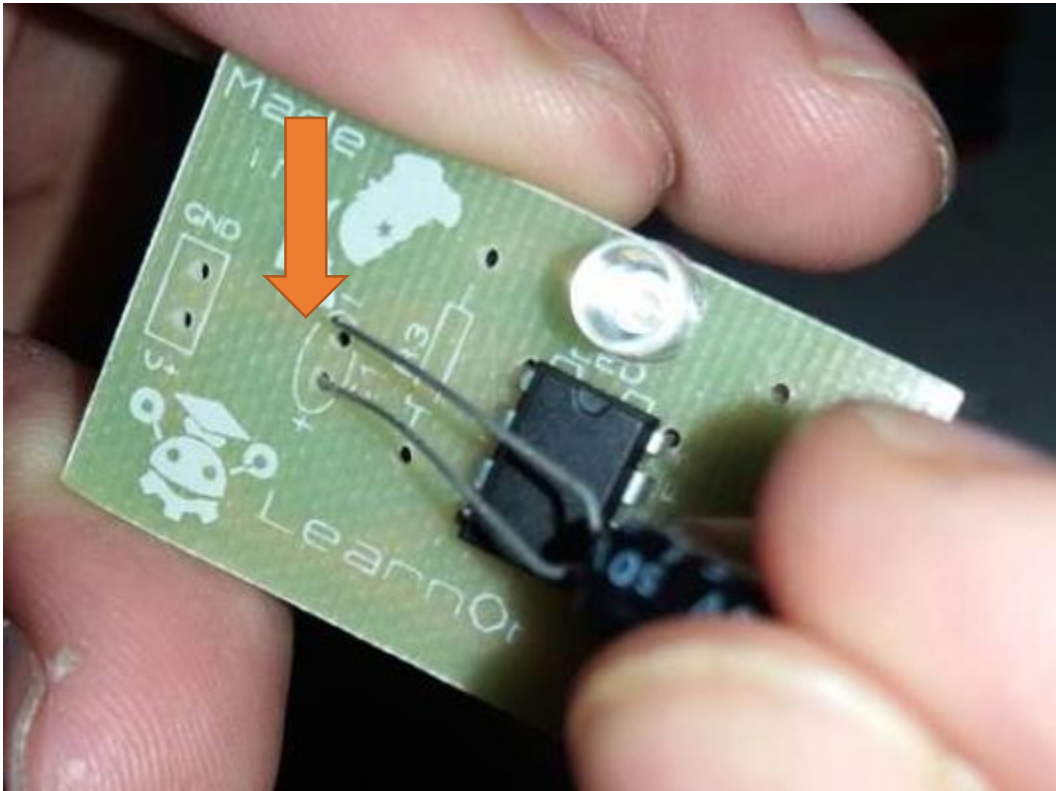
5. Solder the legs of the LED on the PCB. And cut off the excess legs using the scissor. (if the LED is falling off then tape it to the PCB and then solder it).



6. Below picture is of a capacitor, it's a device to store charge (electrons), in this circuit it is used to determine the frequency of flashing.



7. Insert the capacitor in the slot labeled as C1, longer leg in + hole and shorter in – hole.



8. Solder the legs of Capacitor and cutoff the excess legs using a scissor (tape it if its falling off).
9. Read out the color code of the resistance (to do that refer "[How to read the color code on a resistance](#)" [Manual](#)) and take out the 560 Ohm Resistance and plug it in R3 slot.



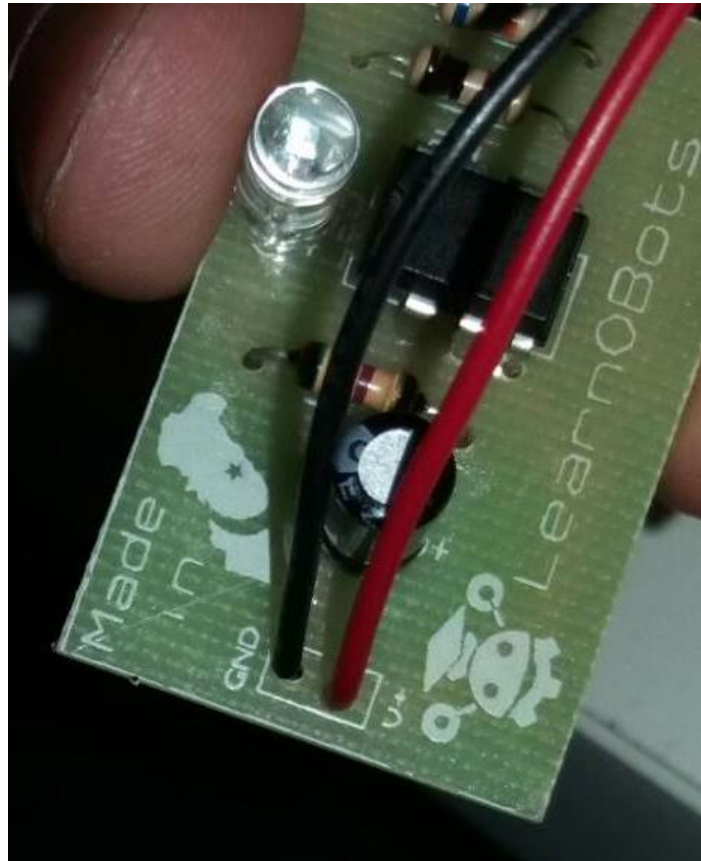
10. Insert a 1 kilo Ohm (1000) resistance in R2 and solder its connections.



11. Insert a 68 kilo (68,000) Ohm Resistance in R1 and solder its connections.



12. Connect the battery connector to the PCB, attach the Red Wire with V+ and Attach the Black wire where GND is written, Solder these wires to the PCB. Make sure there is no connection between the two solders.



13. Connect the battery to the battery connector, your final product will look like this:

