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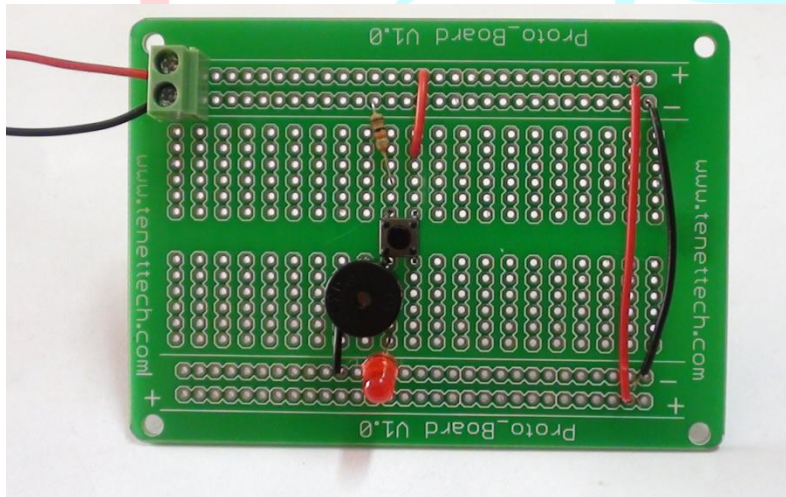
Blinking LED & Buzzing using Push Button in Solderable Breadboard


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Introduction:

This is the Solderable Breadboard PCB. This Solderable breadboards are greatly used for prototyping and experimenting, Which is similar to our regular solderless breadboard with the same connections to pins and power rails, but they are mechanically robust, that is in solderless breadboard it seems like somewhere, something is always coming loose, so having a solderable board with a matching trace pattern allows you to make a prototype more solid without having to lay out a custom PCB.

Here is the quick example on blinking LED & buzzer using Push Button, which shows how to prototypeon Solderable Breadboard.

Fundamental requirements:

- Solderable Breadboard.
- Battery 9v.
- LED.
- Buzzer.
- Pull-down Resistor 10k.
- Terminal block.
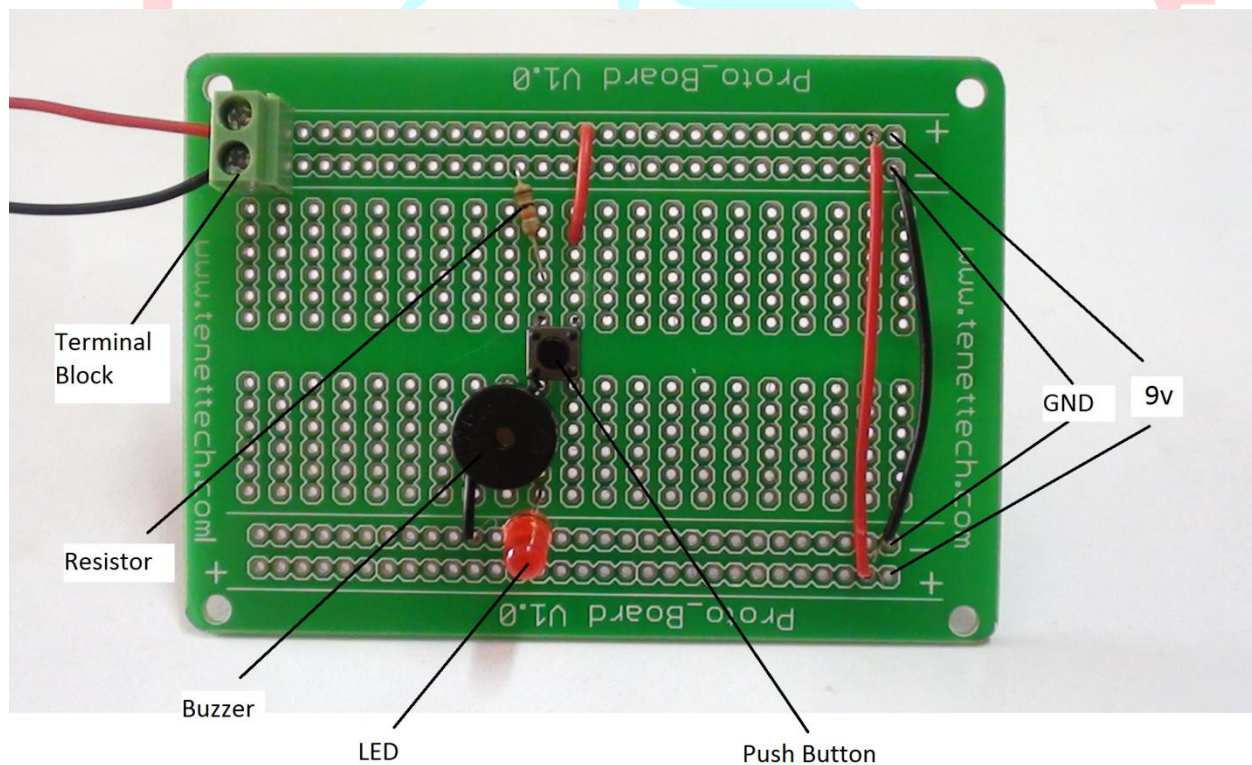- Connecting wires.
- Solder Gun, Flex& Lead.
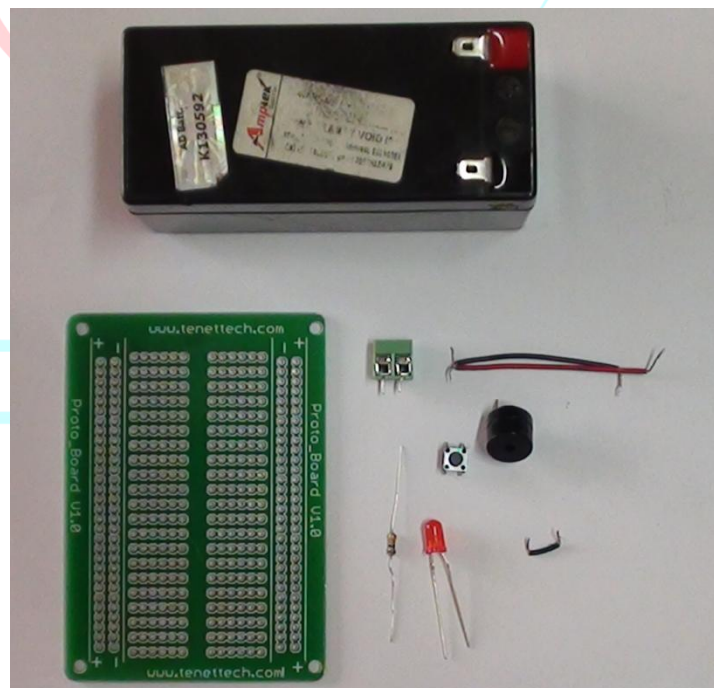
Step 1:

Place all the components on Solderable Breadboard as per the circuit that is, initially place the Terminal block on Bus strip of the breadboard & take two wires, short –Ve to –Ve& +Ve to +Ve terminals on either side of the breadboard.

Now place a Push Button in between the terminal strip of the breadboard, and to provide a Gnd& power supply, place a wire between +Ve terminal & one side of the button, and place a pull-down Resistor between –Ve& other side of the button.

Now place the –Ve terminals of the LED &Buzzer to –Ve terminal of the breadboardand place +Ve terminals of the LED & Buzzer to other side of the push button as shown in the below diagram.

Step 2:

Once after you place all the components on the top side of the breadboard, you need to solder all those components and wires at the bottom side of the breadboard.
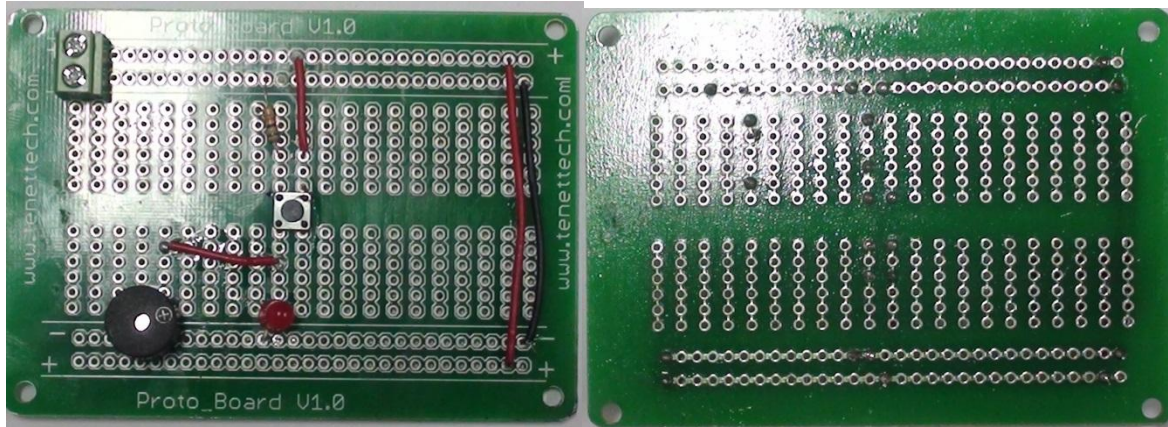
Step 3:

Now power the prototype using 9v battery by connecting the +Ve&-Ve terminals of the battery to the +Ve&-Ve terminals of the Terminal Block.

Now press the Push button to light up the LED & to buzz the buzzer.