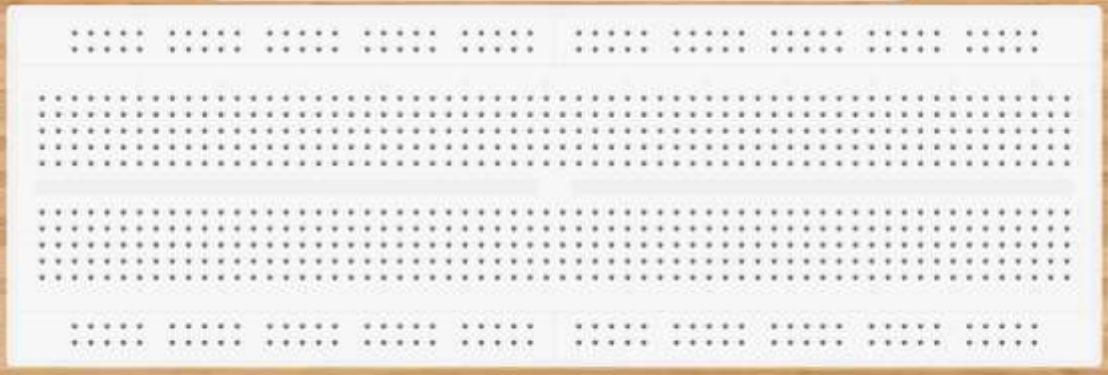
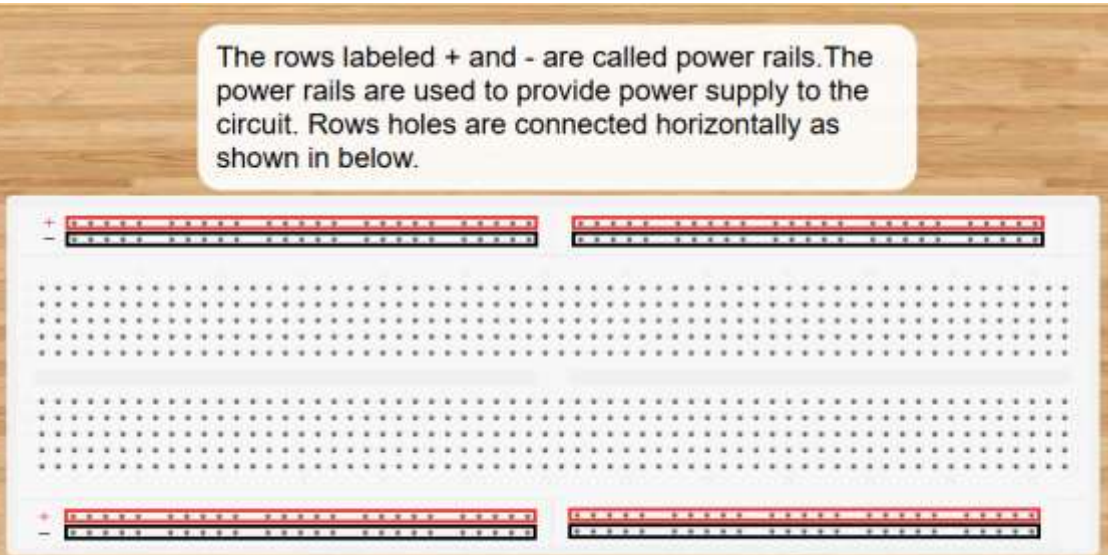
Familiarization with general bread board

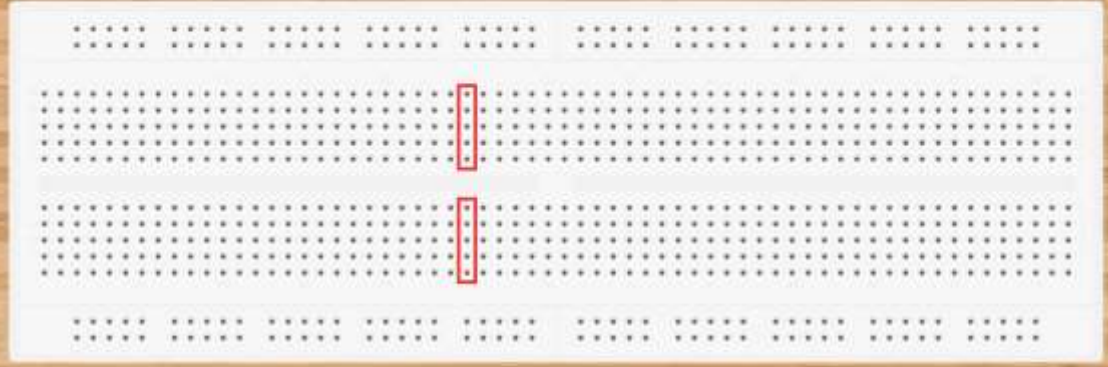
'Breadboard' also known as Prototypeboard is a type of solderless electronic circuit building. A breadboard is used to build and test circuits. A breadboard image is shown below.

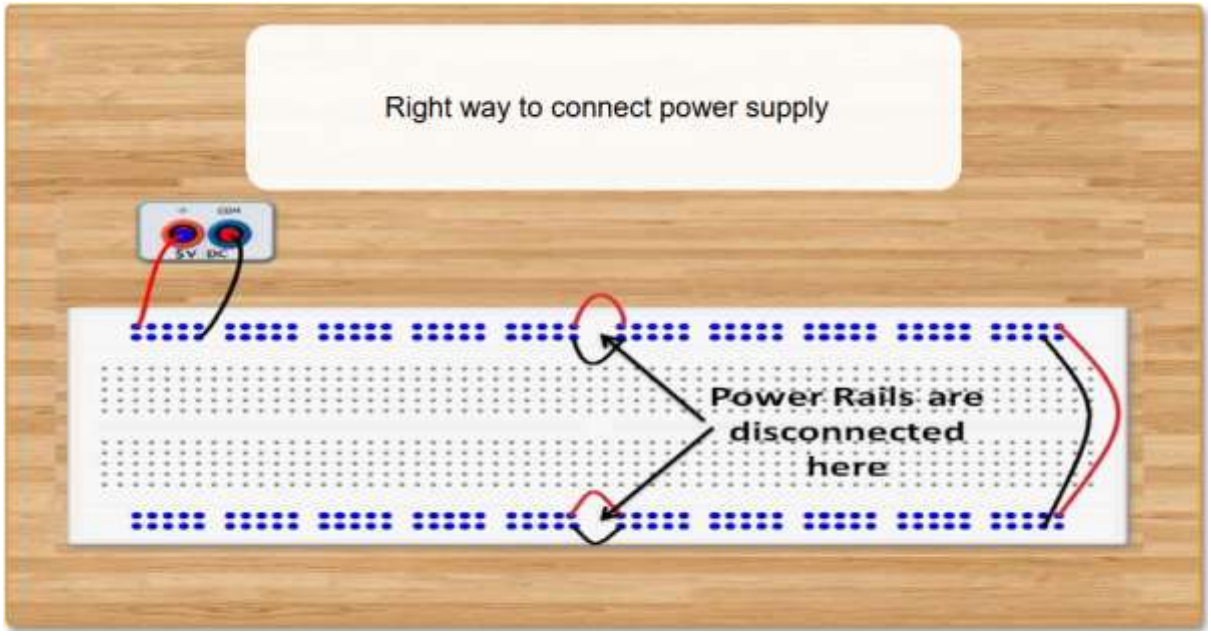


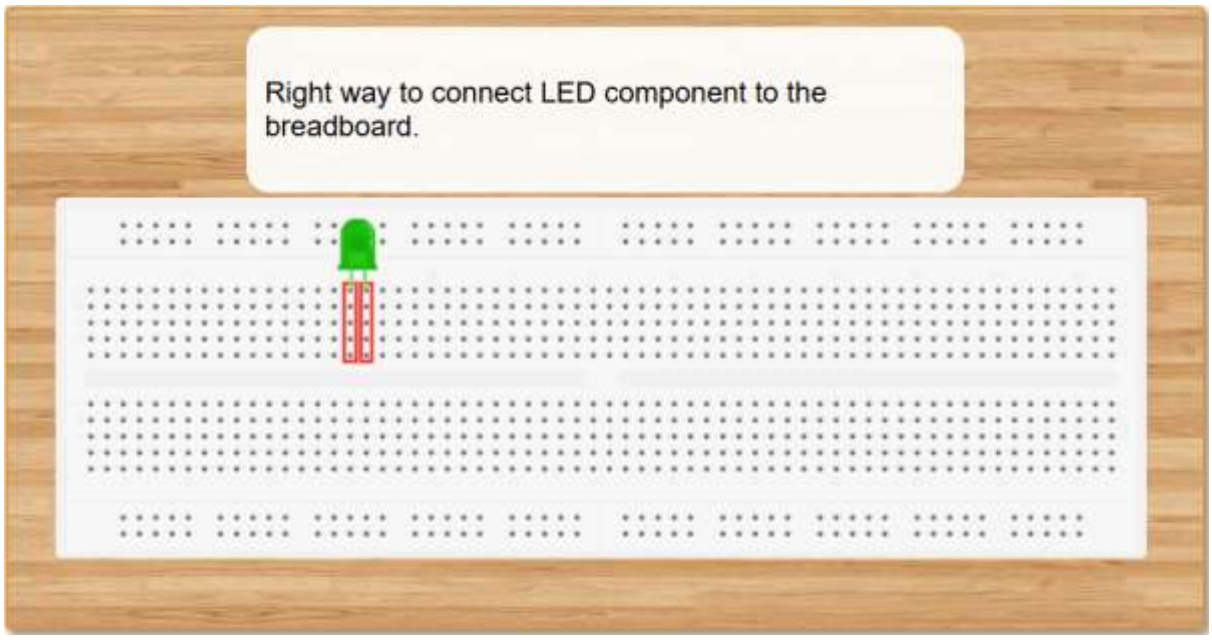
The rows labeled + and - are called power rails.The power rails are used to provide power supply to the circuit. Rows holes are connected horizontally as shown in below.

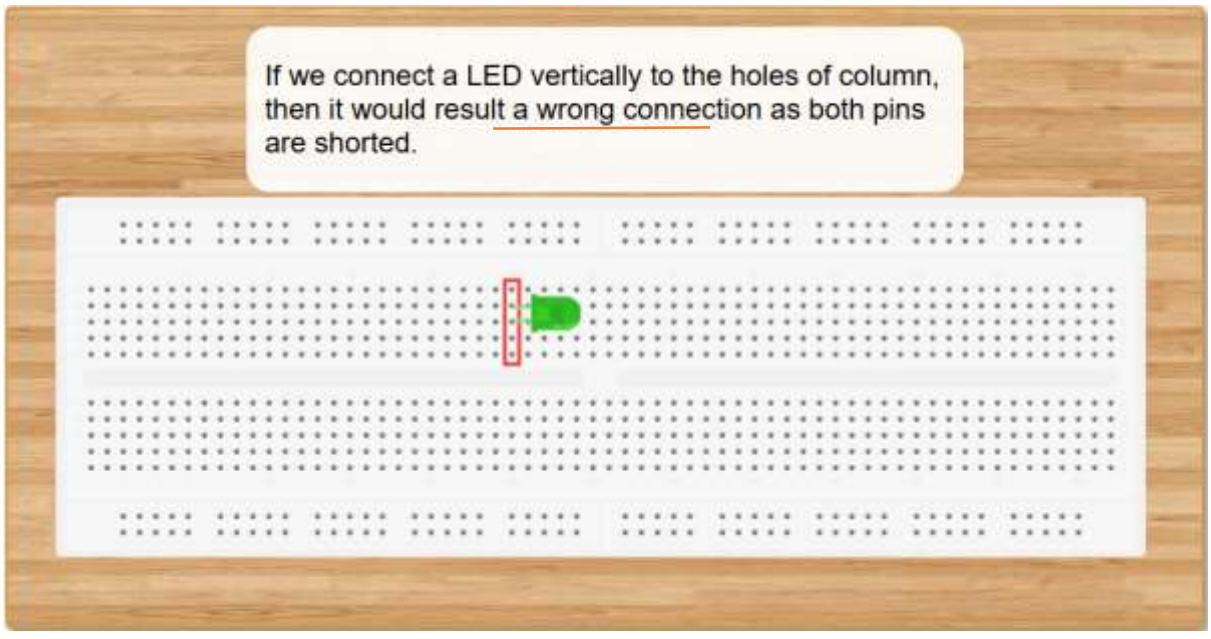


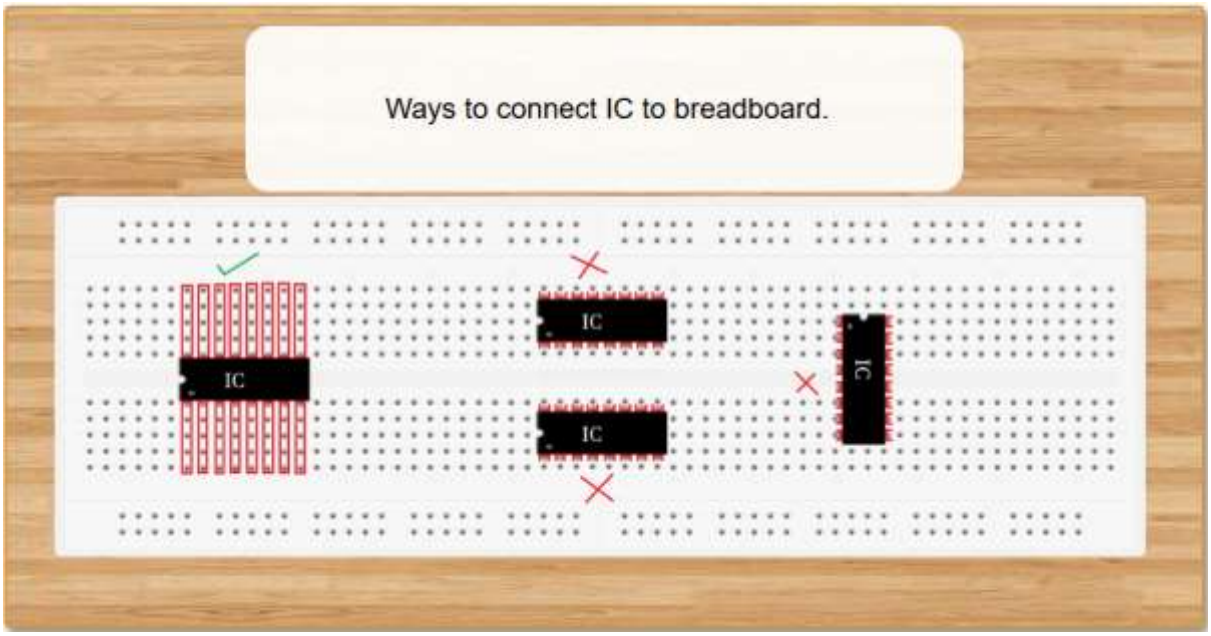
The column holes are connected vertically as shown below.

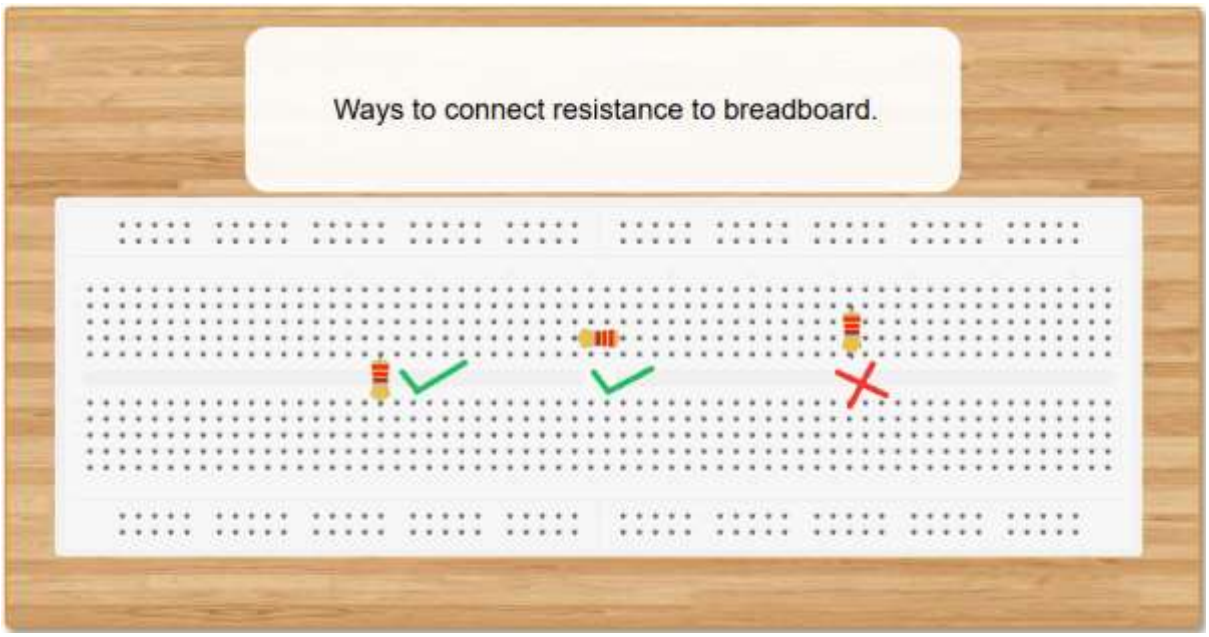


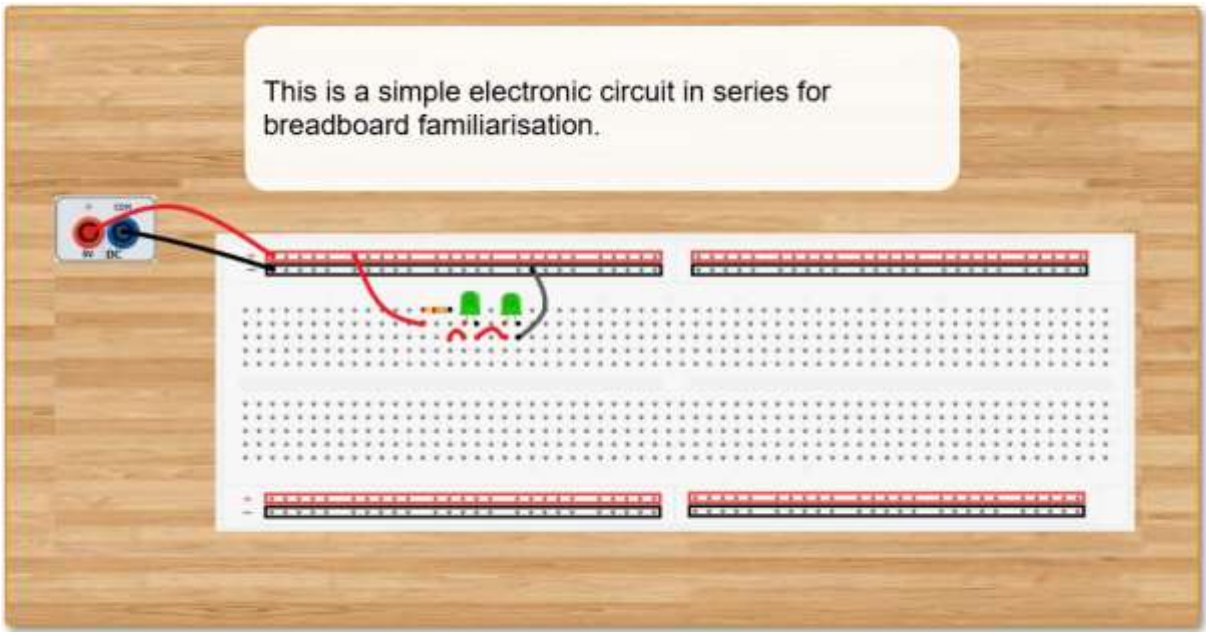

Right way to connect power supply
5V DC
Power Rails are disconnected here


Right way to connect LED component to the breadboard.

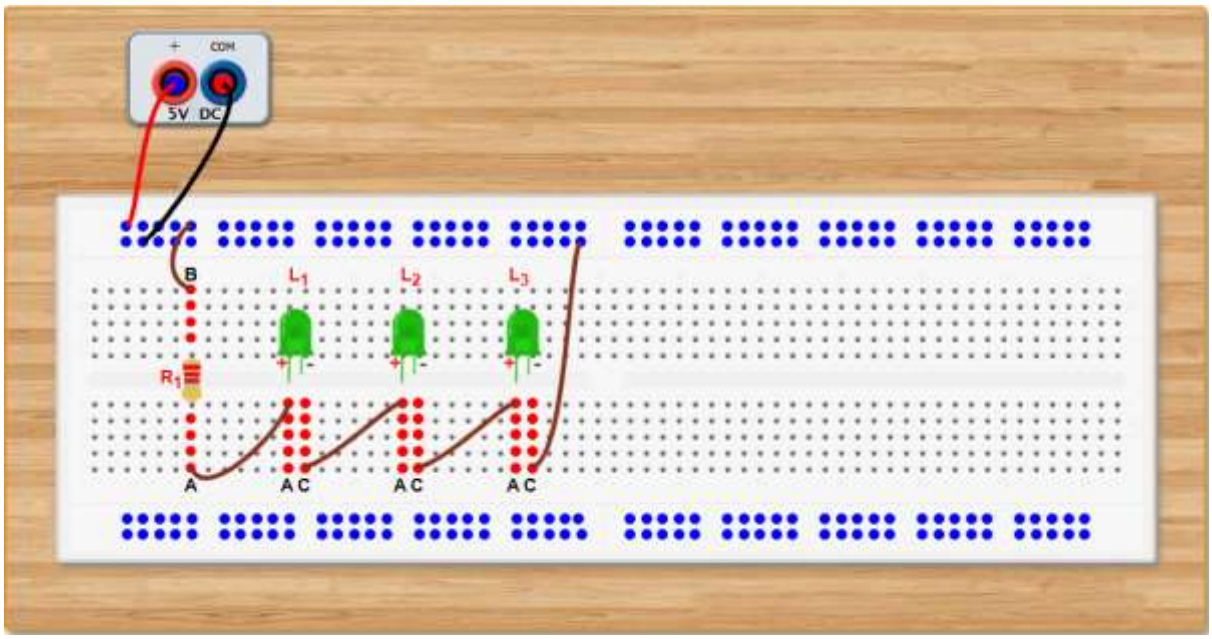

If we connect a LED vertically to the holes of column, then it would result a wrong connection as both pins are shorted.


Ways to connect IC to breadboard.
IC
IC
IC
IC

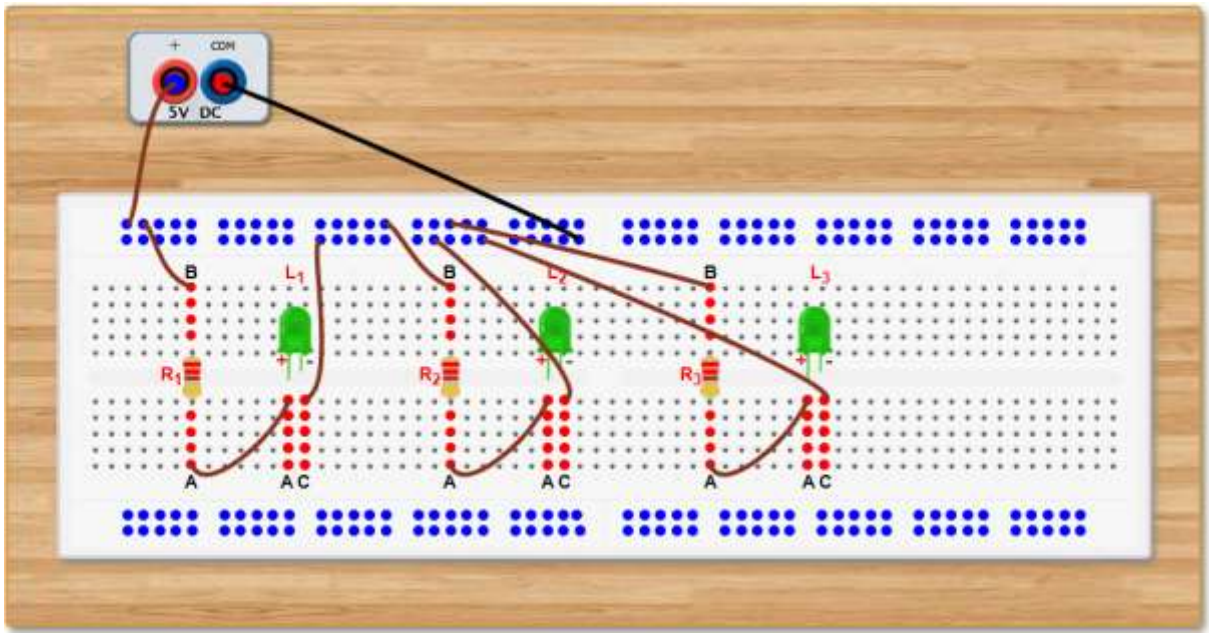

Ways to connect resistance to breadboard.


This is a simple electronic circuit in series for breadboard familiarisation.

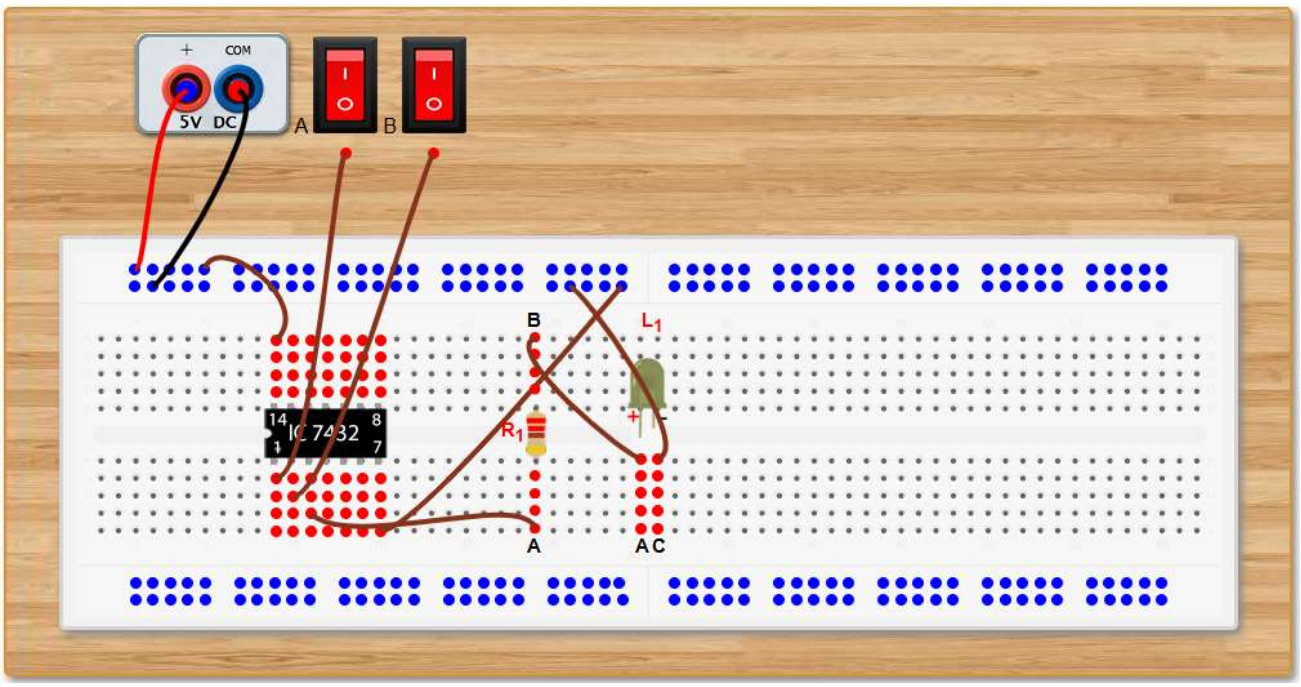
Series Connection



Parallel Connection



Verification of OR gate – IC7432



Courtesy:

https://ade-iitr.vlabs.ac.in/exp/general-bread-board/simulation.html