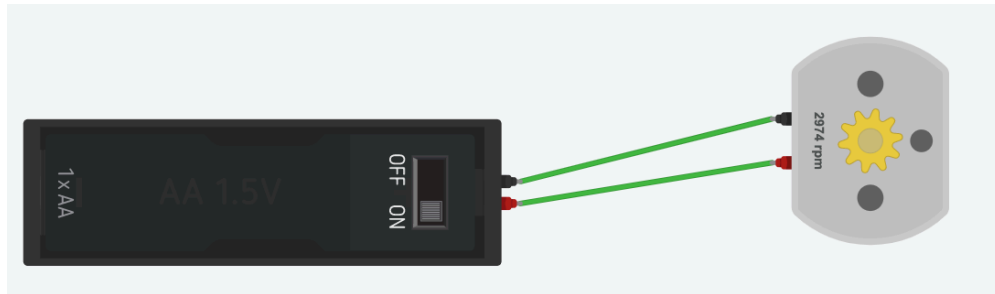


## Hardware Simulation – Taibah Valley # Task 2

S. Y. Al-Kafrawi

15<sup>th</sup> of June 2020

DC motor connected directly to 1.5 DC volt

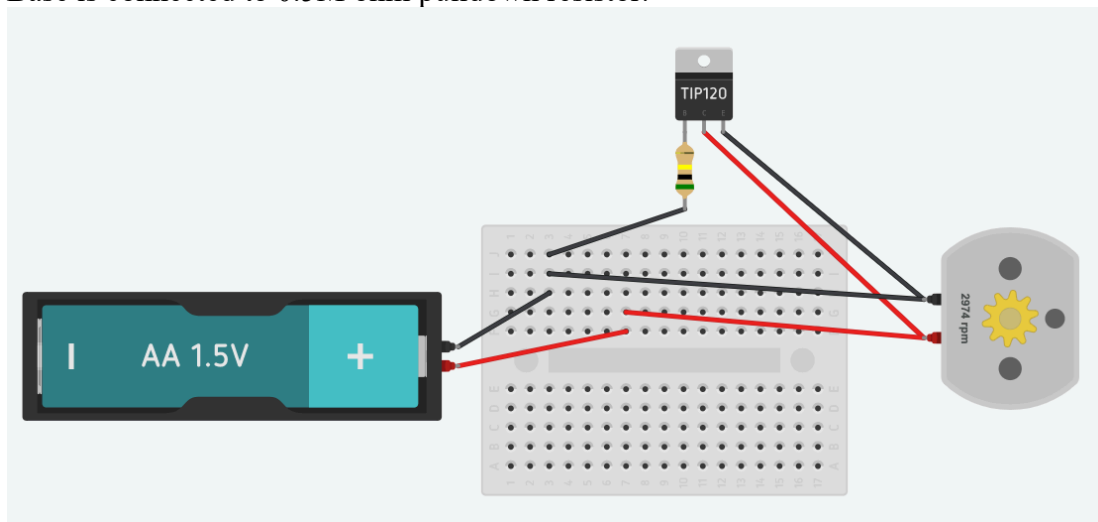


### DC motor with TIP 120

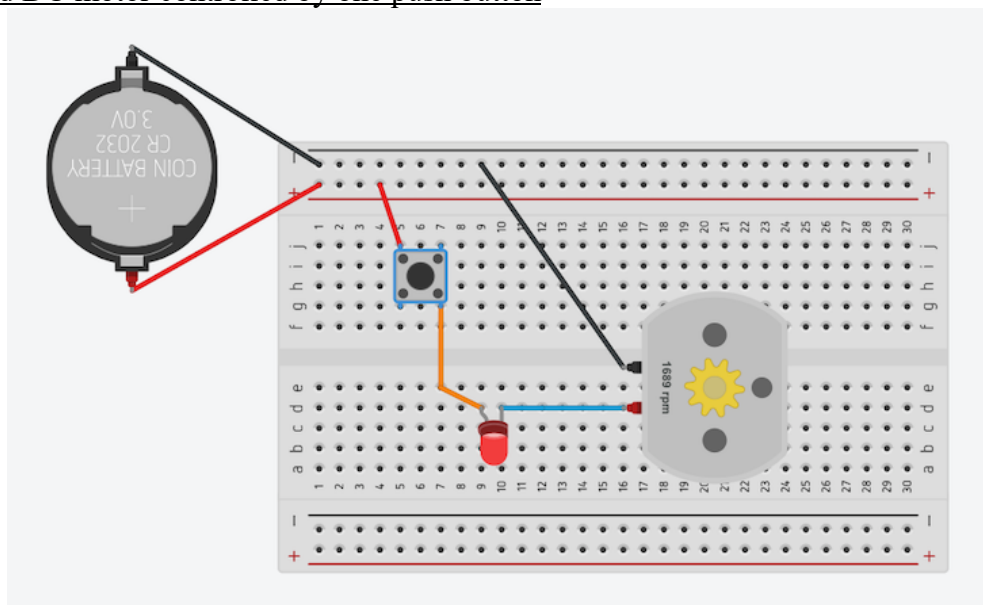
Collector is connected to the positive terminal.

Emitter is connected to the negative terminal.

Base is connected to 0.5M ohm pulldown resistor.



### LED and DC motor controlled by one push button



## **Resistors Values According to Their Color Schemes**

220Ω:

Red (2), Red (2), Brown ( $\times 10^1$ ).

470Ω:

Yellow (4), Violet (7), Brown ( $\times 10^1$ )

1KΩ:

Brown (1), Black (0), Red( $\times 10^2$ ).

1.2K Ω:

Brown (1), Red (2), Red( $\times 10^2$ ).

4.7KΩ:

Yellow (4), Violet (7), Red( $\times 10^2$ ).

100KΩ:

Brown (1), Black (0), Yellow ( $\times 10^3$ ).