

Experiment NO.6

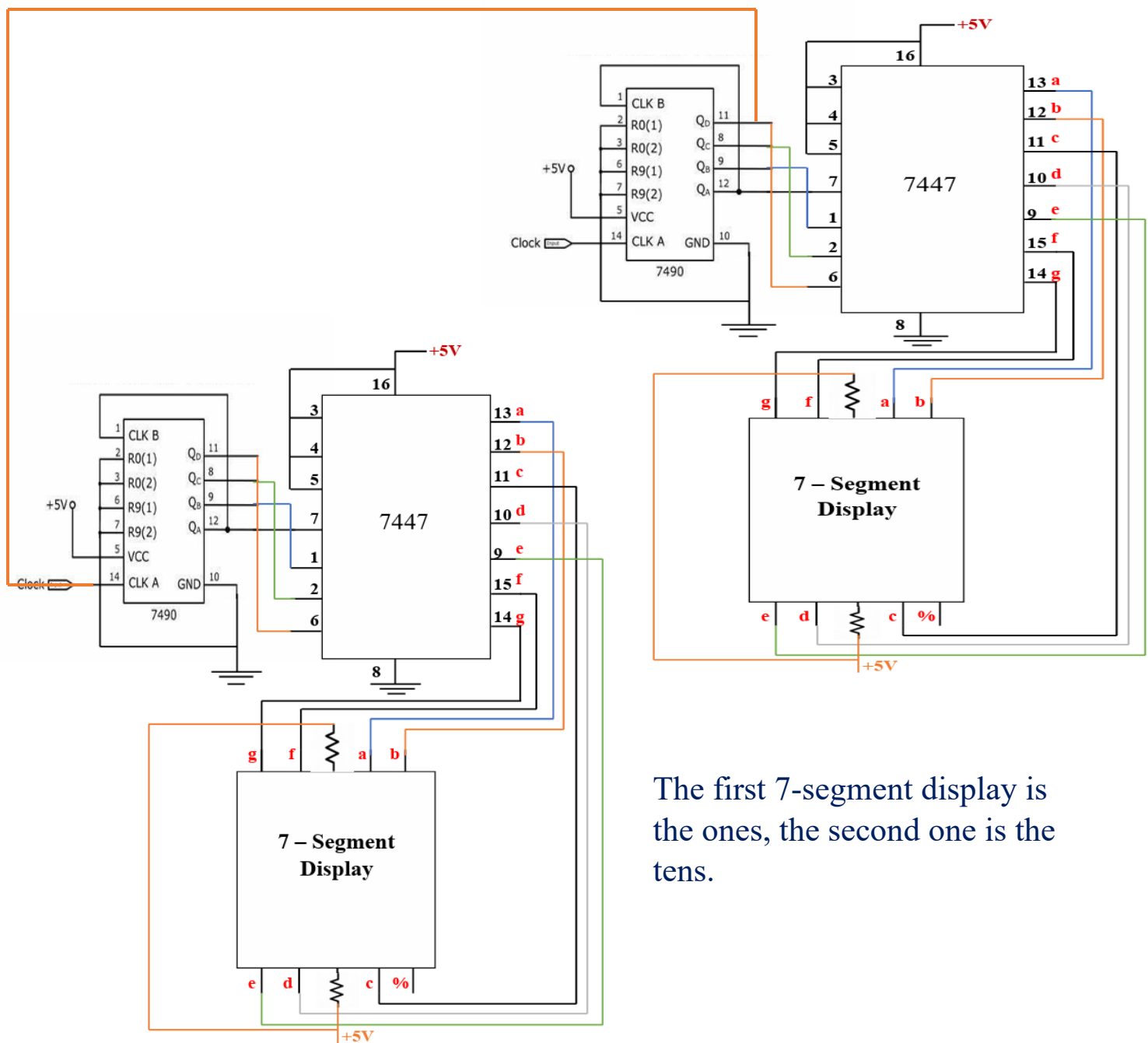
Sequential Logic Circuit using Breadboard and IC's

Post Lab

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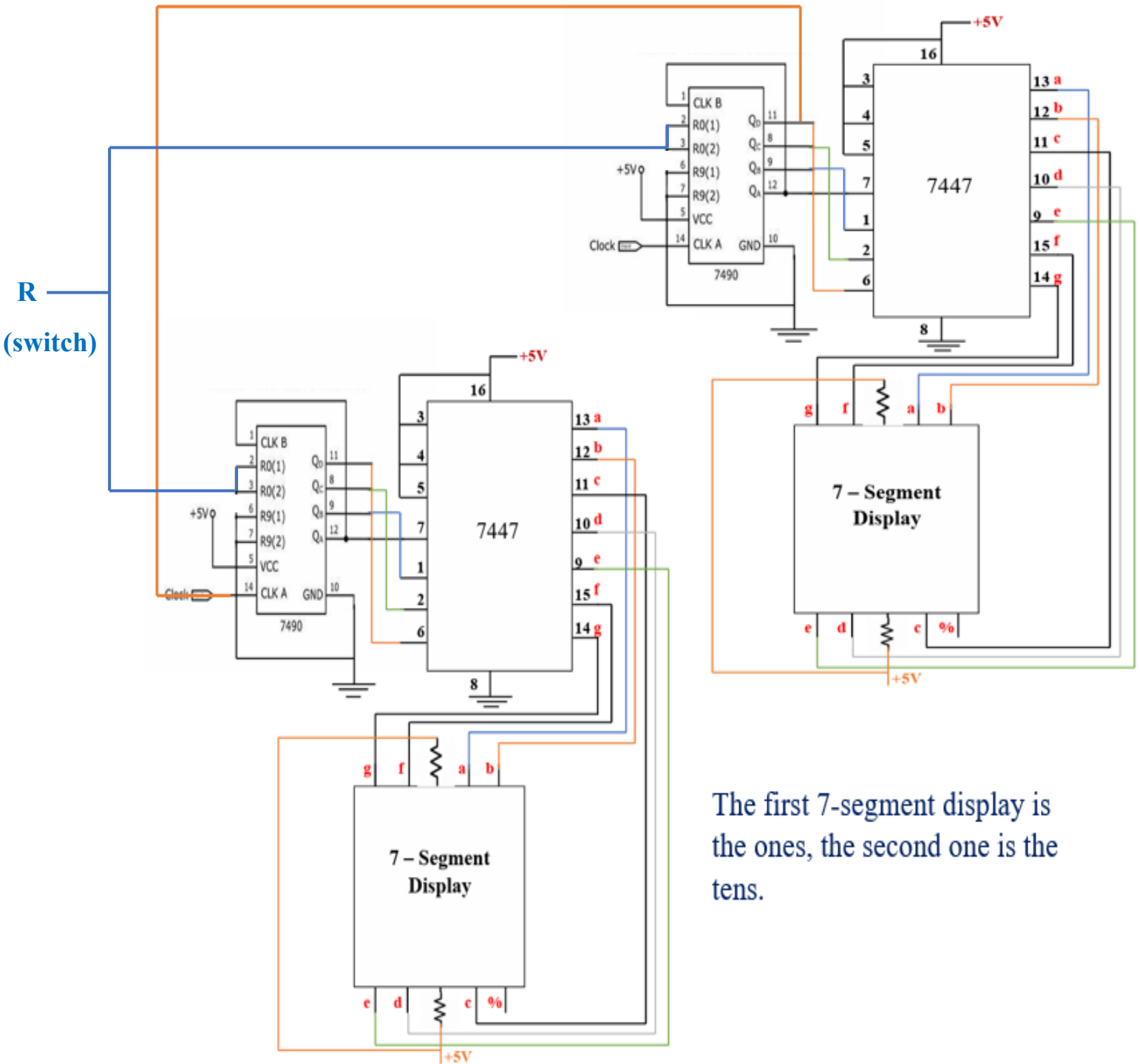
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1) Design a two-decade counter that counts from 00 to 99.



The first 7-segment display is the ones, the second one is the tens.

2) Add additional input to your design that can be used to reset the counter.



The first 7-segment display is the ones, the second one is the tens.

R input : is a switch that work to reset the counter as following :

- If the switch R is zero, then the counter work normally. Because R0(1) and R0(2) {pin 2 and 3} are connected to NAND gate and the output of this gate reset the counter if it is zero voltage (work as active low).
- If the switch R is one, then the counter reset and goes back to 00, since the output of the NAND gate is zero voltage.

