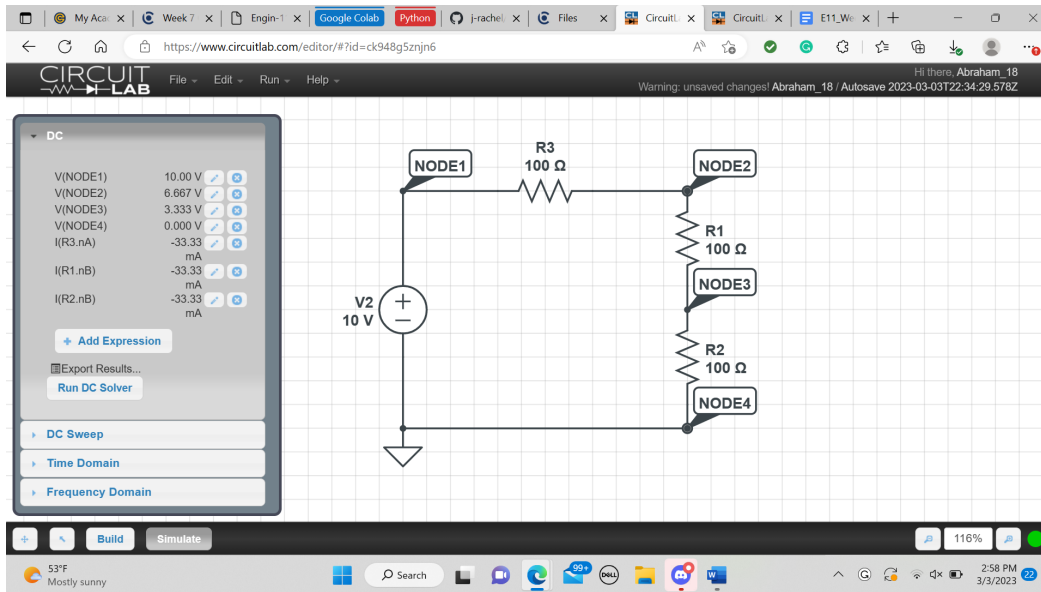
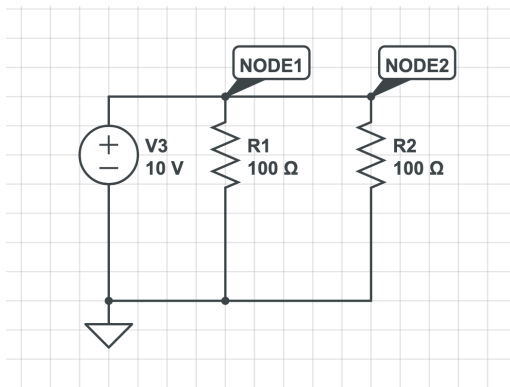


#1:

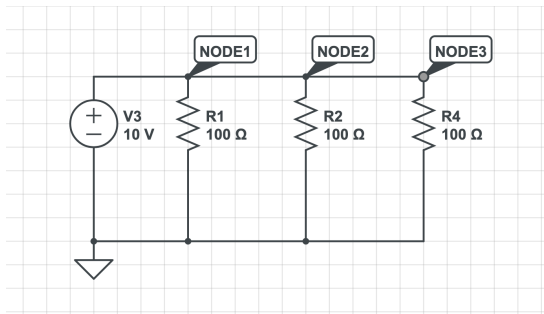


By changing the amount of resistors in a circuit, the voltage output after each resistor is changed. With 2 resistors, the voltages after each resistor was 10,5,0 and with 3, it was as shown above.

#2:

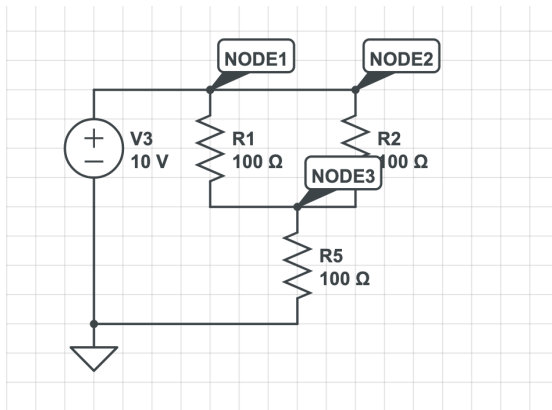


Node 1: 10V
Node 2: 10 V



Node 1: 10V
Node 2: 10V
Node 3: 10 V

#3

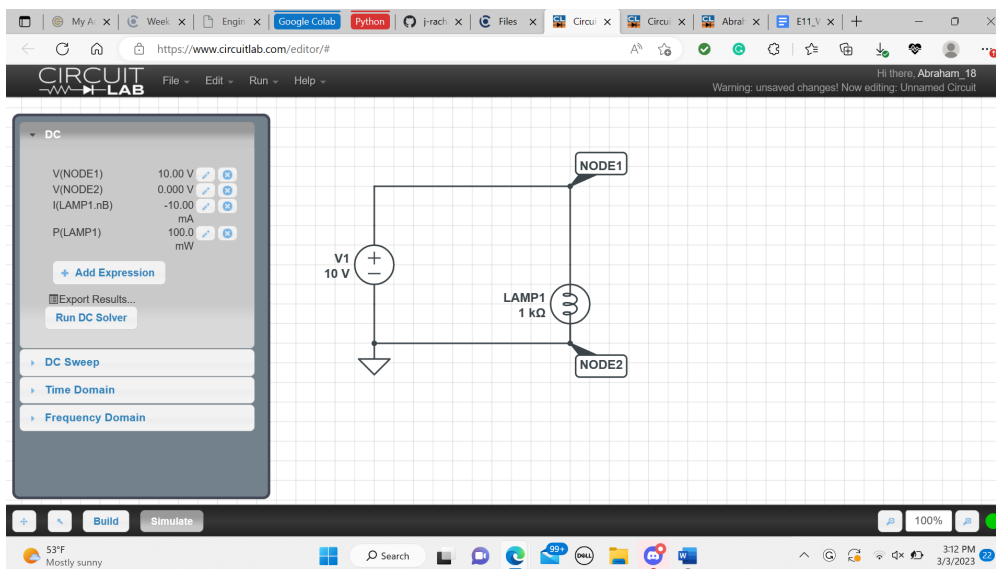


Node 1: 10V
Node 2: 10V
Node 2: 6.667 V

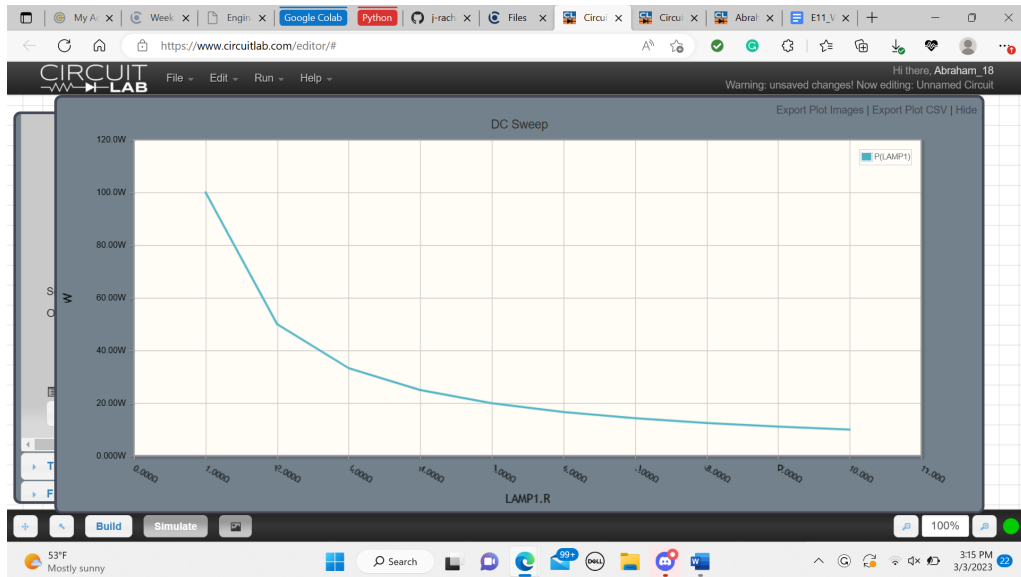
It doesn't impact the first two nodes but it reduces the third one compared to question 2.

#4

a) The power output would be $P = IR$ which is 100mW.

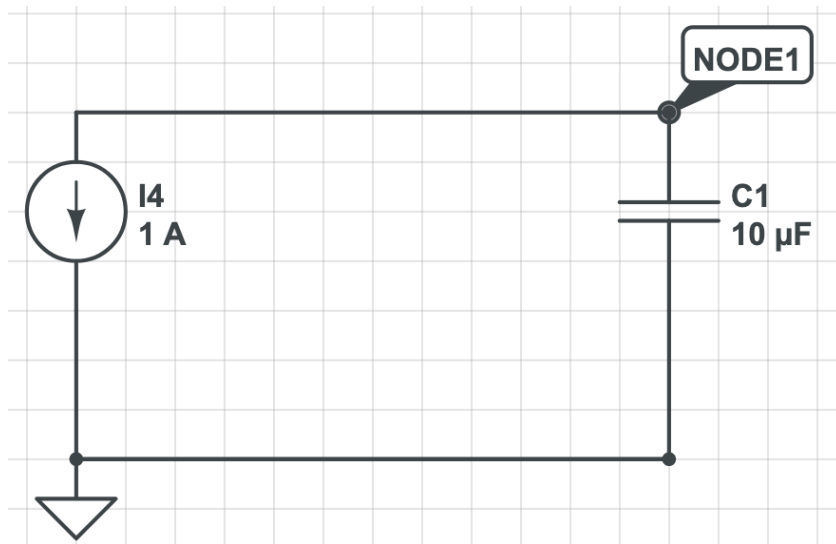


b) My answer turned out to be correct.



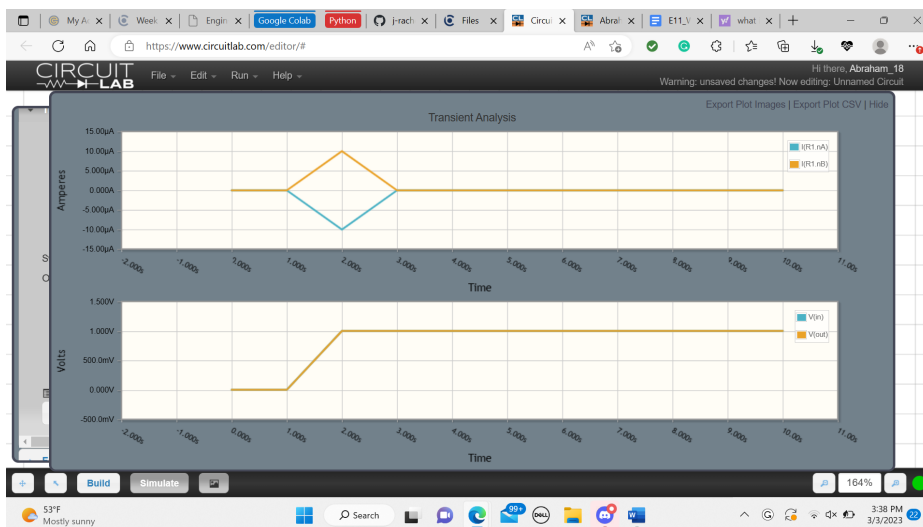
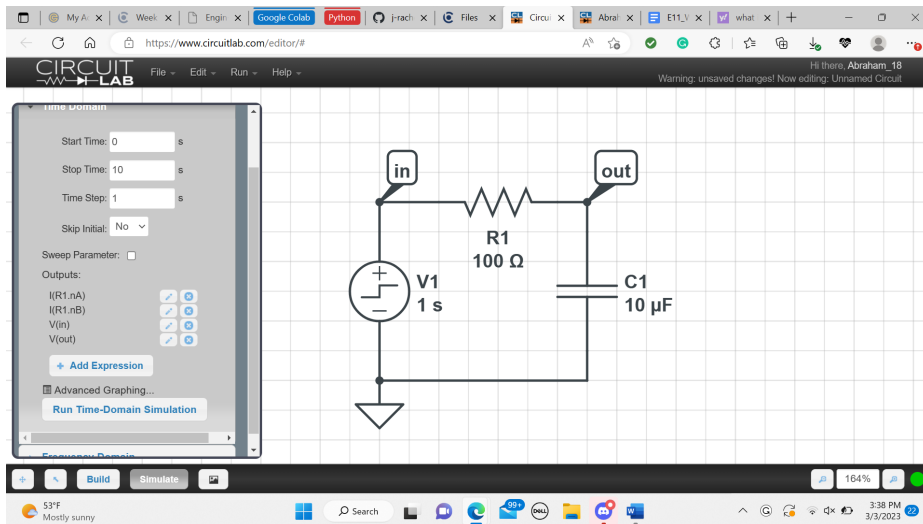
c)

#5



Node 1: -1×10^{18}

#6



#7

