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3. Build the circuit shown in figure 4. Use 1uF capacitor.
   a) Set $V_{IN} = 10V_{pp}$ square wave at **1kHz** with no DC component. Use oscilloscope 9 to plot V_{OUT} vs. time and V_{IN} vs. time on the same axis.
   b) Repeat (a) with $V_{IN} = 0.8V_{pp}$ 10
   c) Repeat (a) for circuit in figure 5. Show your graph in the report. 11

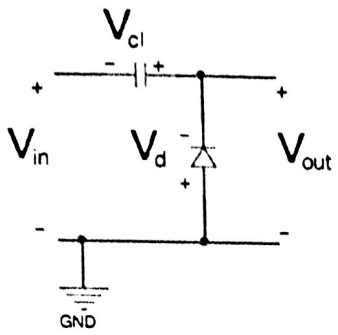

Figure 4.

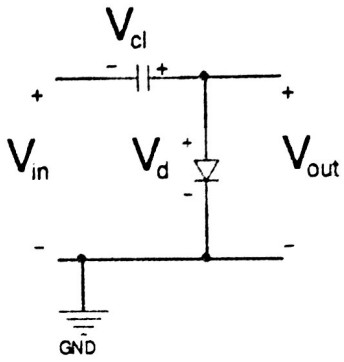

Figure 5.

4. Build the circuit shown in figure 6. Set V_{IN} to a square wave at **2kHz** alternating between **-5V** and **5V**. Sketch V_1, V_2, V_3, V_4 and V_{OUT}. Measure the ripple. Comment on the observed and computed results.

13 - V_{in} & V_1
14 - V_{in} & V_2
15 - V_{in} & V_3
16 - V_{in} & V_4
17 - V_{in} & V_{out}

Ripple voltage = 3V

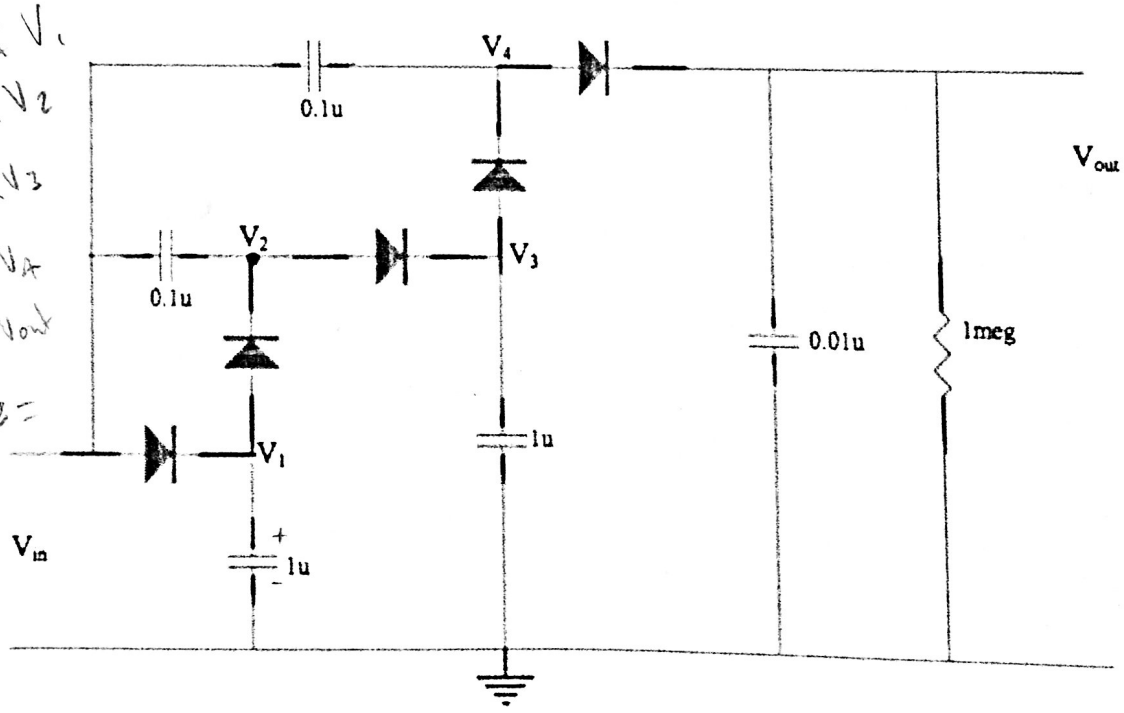

Figure 6

REPORT

Please follow the instructions given in the experiment section and work out a report of your own. Each team should submit a separate report.