

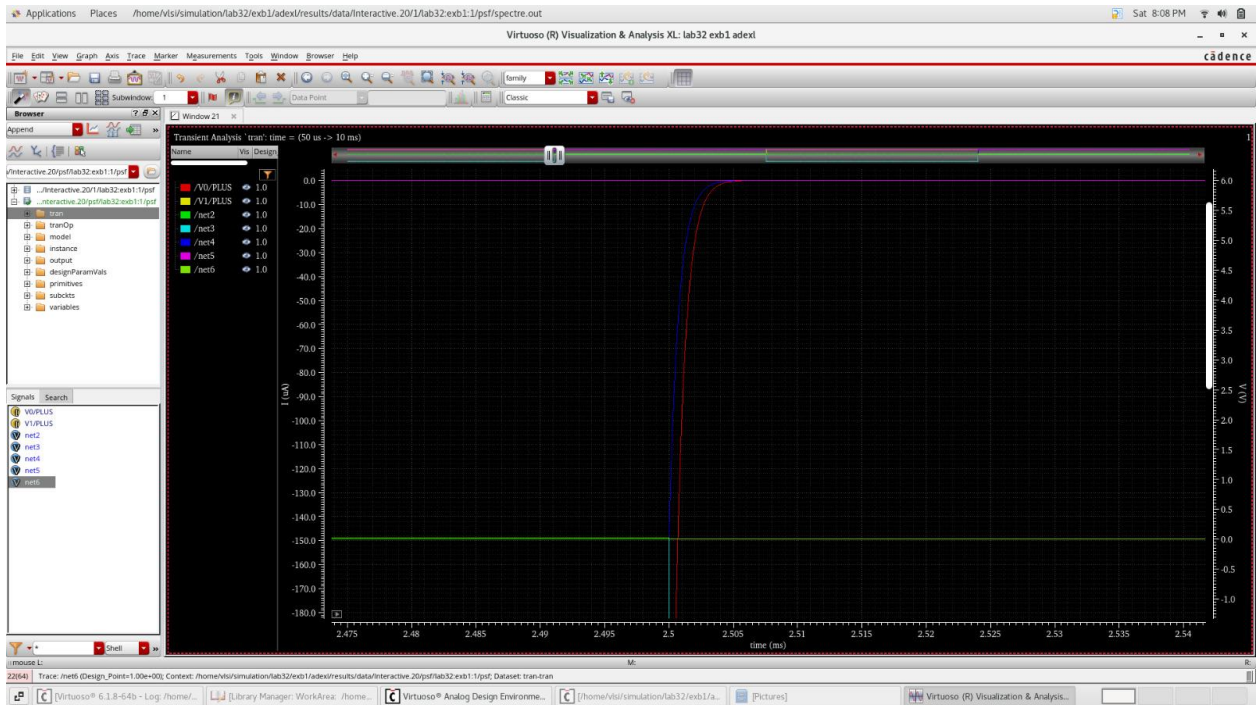
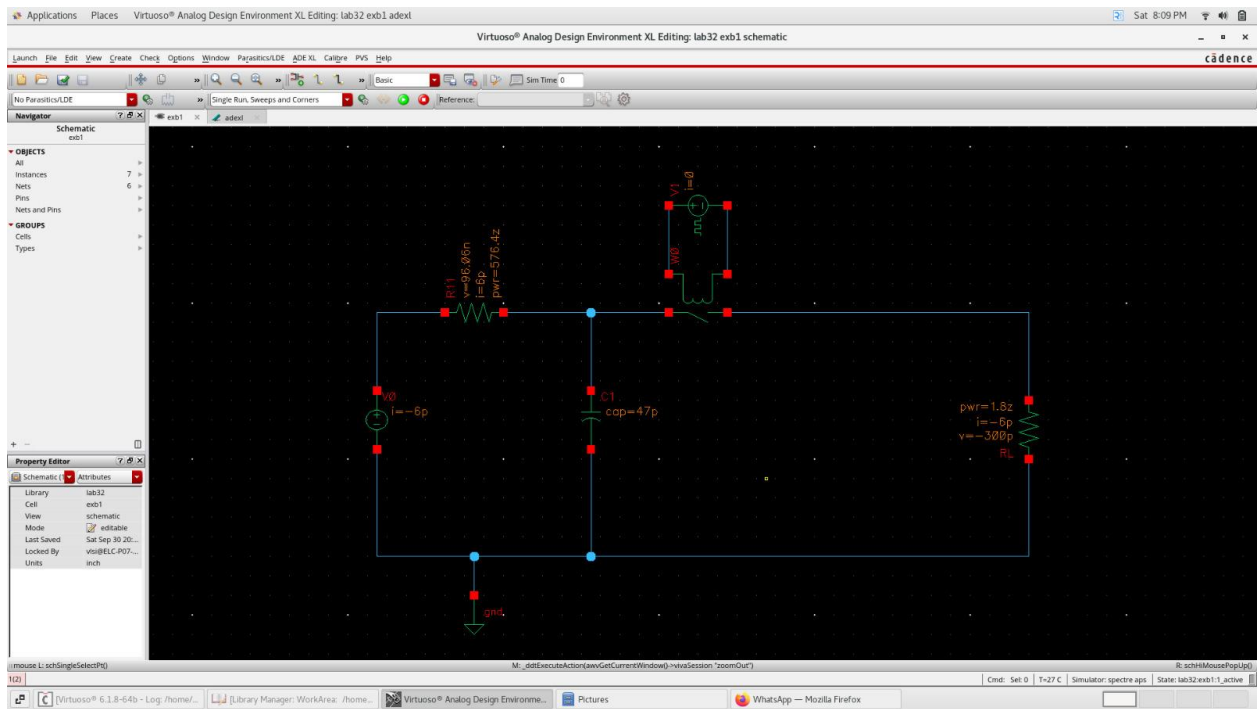
## **Lab 3 Analog Bouns**

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A pacemaker is a device used to control an irregular heart rhythm. A pacemaker has flexible wires called leads. The wires are placed in one or more chambers of the heart. They deliver electrical signals to fix the heart rate.

- The RC circuit can be used in an artificial pacemaker to establish a normal heart rhythm by generating periodic electrical impulses.

The box labeled “controller” behaves as an open circuit until the voltage drop across the capacitor reaches a preset limit.

- Once that limit is reached, the capacitor discharges its stored energy in the form of an electrical impulse to the heart, starts to recharge, and then the process repeats.

