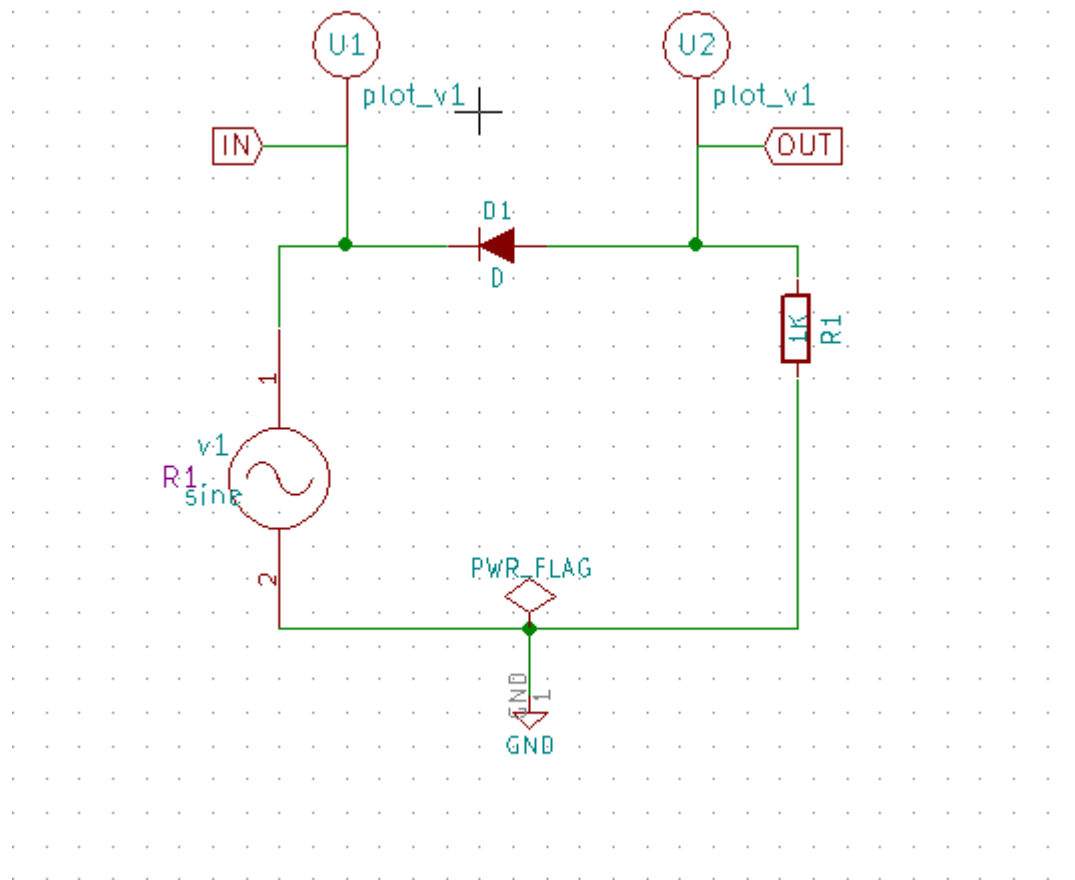# TITLE:

Designing a clipper circuit using esim.

## THEORY:

Clipper circuit can remove certain portions of an arbitrary waveform near the positive or negative peaks without distorting the remaining part of the waveform. Usually under the section of clipping, there is a change brought about in the wave shape of the signal. Clipper circuits are also called as slicers or amplitude selectors.

# SCHEMATIC DIAGRAM:
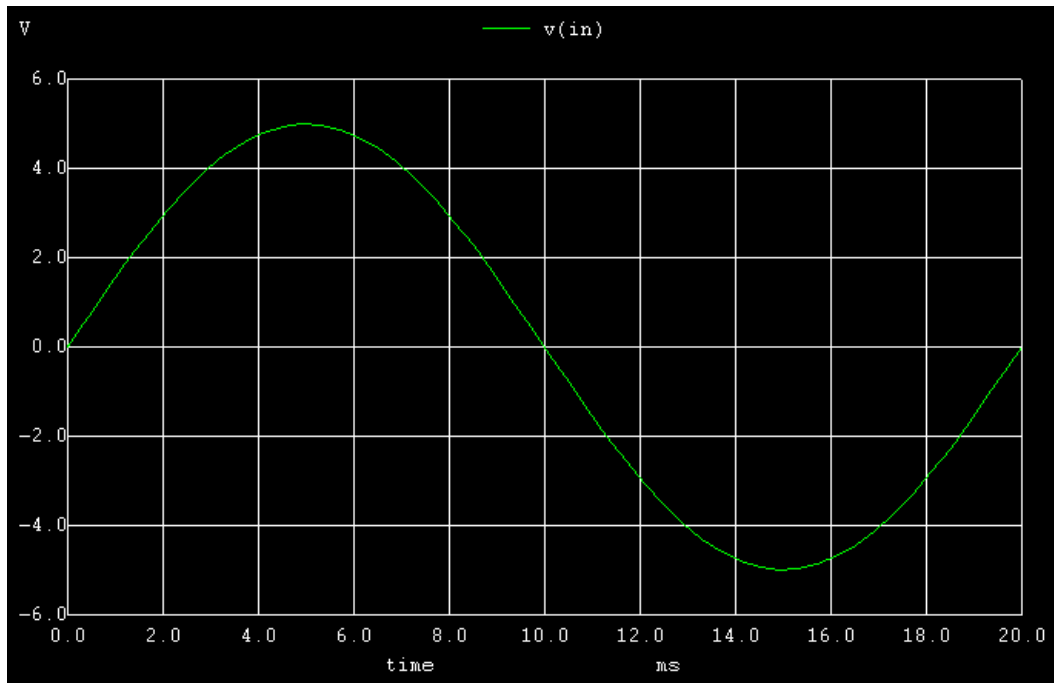


NEGATIVE SERIES CLIPPER CIRCUIT

# SIMULATION RESULTS:



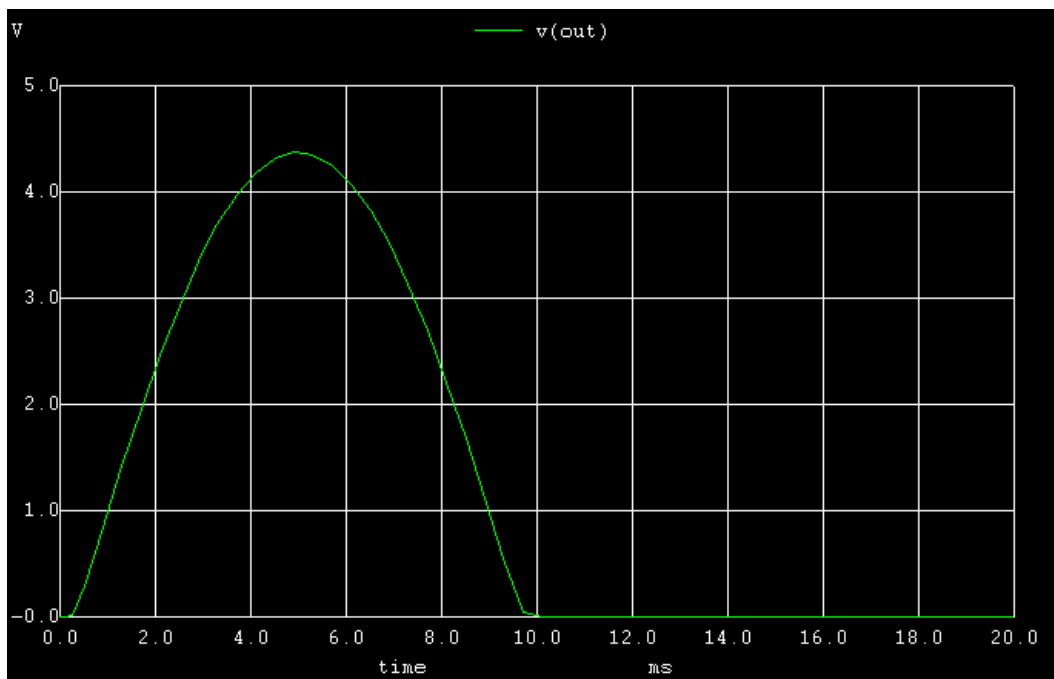FIGURE1:  NGSPICE INPUT PLOT
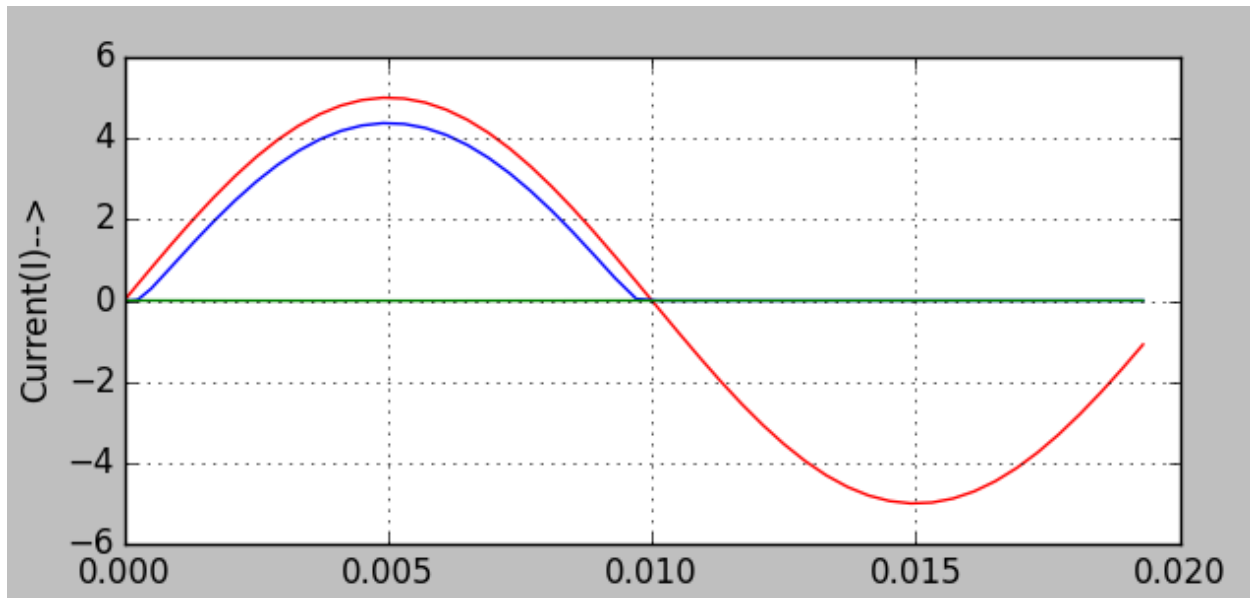
# FIGURE2:  NGSPICE OUTPUT  PLOT



FIGURE 3: COMPARISON OF INPUT AND OUTPUT

## CONCLUSION:

Thus we have designed a clipper circuit using esim and the transient analysis of clipper was simulated.