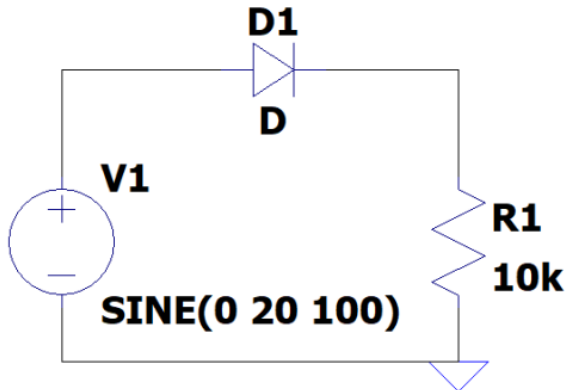


Name of the Experiment : Study of diode Half-Wave rectifier circuit.

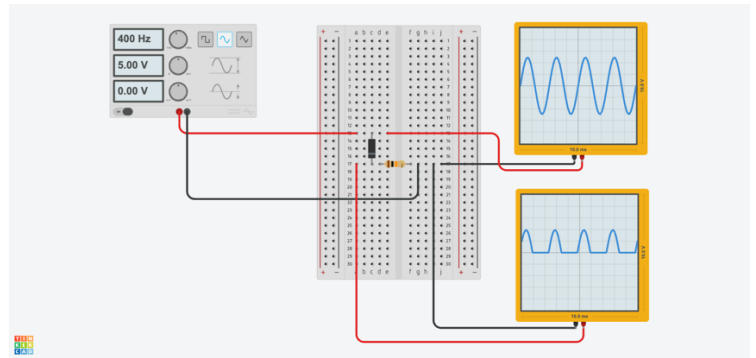
Equipment:

1. Diode (1 piece)
2. Signal Generator (1 piece)
3. Resistor ($10\text{k}\Omega$, 1 piece)
4. Oscilloscope (2 piece)

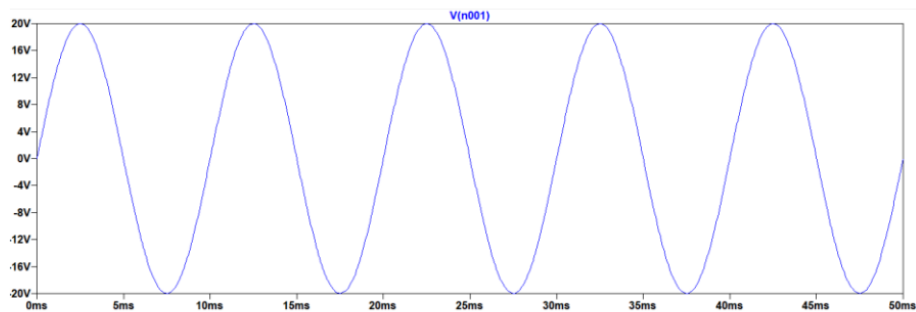
Circuit :



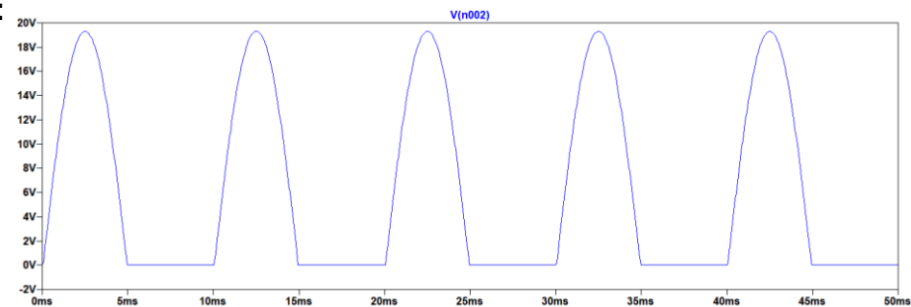
Simulation :



Input Voltage :



Output Voltage :



Summary:

Here, the input voltage is a sine function with an amplitude 20 V & frequency 100 Hz. The value of the resistor is 10 K Ω . The load receives approximately half of the input power