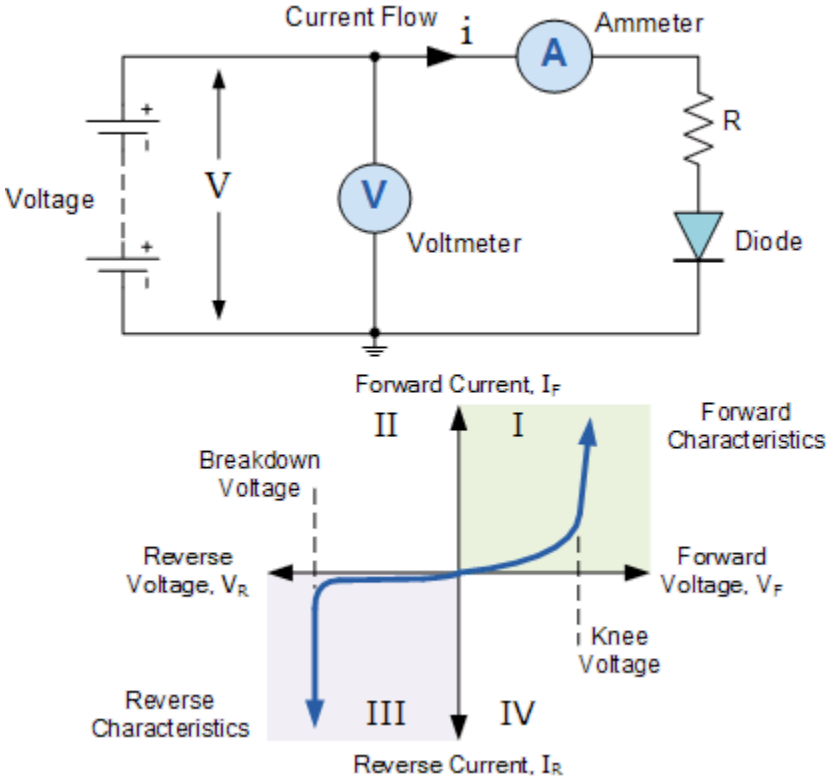
Basics

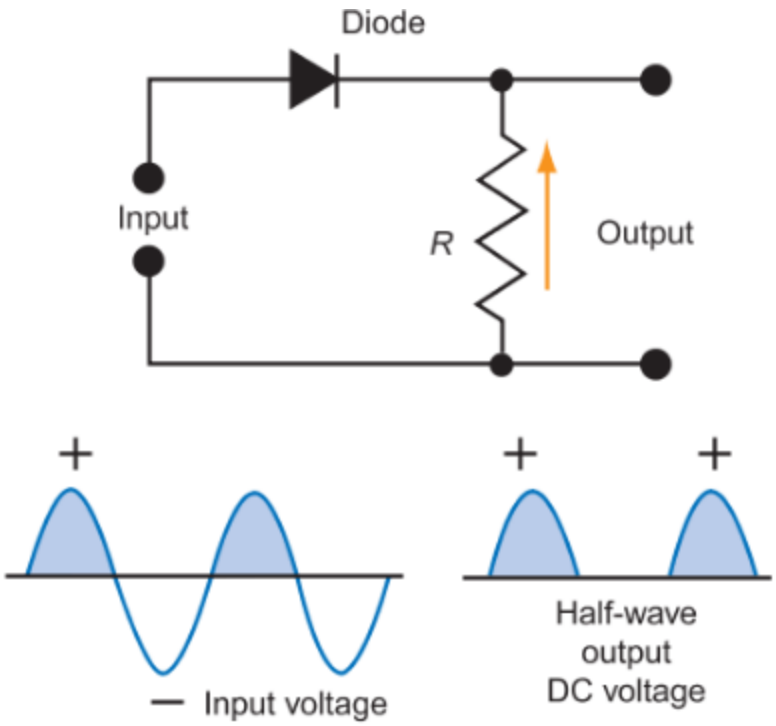
- Signal generator
- Oscilloscope
- Breadboard connection and power supply
- Load resistor.

How do you implement following experiment :

1. I-V characteristics of diode
   IC :1N4007

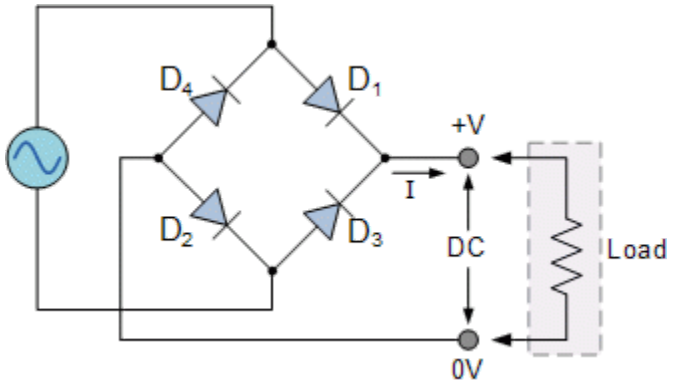


   a. Voltage source
   b. Multimeter
   c. Diode 1N4007
   d. Load resistance (1k-100k Ohm)
2. Half-wave rectification

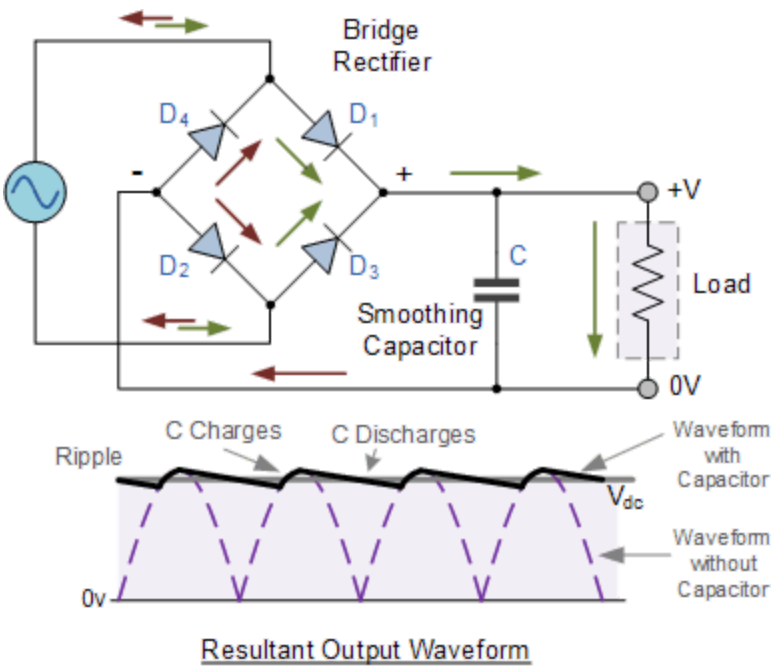


a. Signal generator
b. Oscilloscope
c. Diode 1N4007
d. Load resistance

3. Full wave rectification



a. Signal generator
b. Oscilloscope
c. Diode 1N4007
d. Load resistance



Resultant Output Waveform

e. Capacitor

4. Transistor characteristics (common base/emitter)
    a. Voltage source
    b. Multimeter
    c. BJT 2N3904, 2N3906, 2N2222,
    d. Load resistance (1k-100k Ohm)
5. Op Amp 741 IC