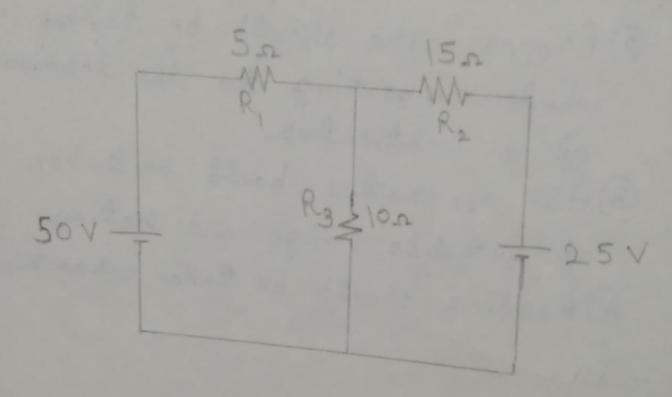
Ciercuit Diageram:



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Experiment No.-3

Object: Verification of Kirchoff's Law.

Apparatus:-

| A.C. | Supply | 0-3 |
|------|--------|-----|
| 1 | | |

Theosy: -

Kierchoff's Voltage Law (KVL):- In a

closed circuit the algebraic sum of voltage

is zero. If V is the supply voltage, I

is the current flowing through elements

of Sesistance R, , R2, Rg.

V-I(R,+R2+R3)=0

Kinchoff's Connent Law (KCL):- At any

junction the current entering the

junction is equal to consent going

out to the junction.

Observation Table:-KVL:-

| 5. No. | Supply Voltage(v) | | Result |
|--------|-------------------|---------|--------|
| 1 | | | |
| 2 | | -6.82 V | |

KCL :-

| S. No | Vsource (V) | I, | I ₂ | I |
|-------|-------------|--------|----------------|--------|
| - | 50 | - 4.54 | 2.72 | V 1.82 |
| 2 | 75 | - 6.82 | 4.09 | 2 72 |
| 3 | 100 | - 9.09 | 5.45 | 3.64 |

KVL Reading: -

| 1 15 V | Vsousice2(V) | V.(M | | |
|------------------|--------------|------|--------|--------|
| 1 15 V 2 15 V | 25 V | 2.27 | V2 (V) | V3 (V) |
| 2 15 V | OV | 600 | 12.27 | 12.73 |
| | | 0.02 | 8.18 | 8.18 |
| | | | 1 | |

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Result: - By observing the calculation its verified that sum of potential in a closed loop is equal to 0 and sum of current entering and going out from the junction is equal to 0.

Paecautions:

- DADL the connections should be tight.
- All devices should be checked they are working properly or not before connecting to the circuit.
- Voltmeter is always connected in passables with the resistor
- Ammeder is always connected in series with the resistor.

4/3/22