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Experiment No - 01

■ AIM:- Verification of KCL and KVL

■ OBJECTIVE:- To verify KVL and KCL by D.C

■ THEORY:- The two laws given by Gustav Robert Kirchhoff (1824-1887) form the fundamental principles used in writing circuit equations. These laws relate to the topology of the circuit. The laws do not depend on the nature of the elements of the circuit.

■ Kirchhoff's Current Law (KCL):-

It states that the algebraic sum of currents meeting at a junction in a circuit is zero. If there are K number of branches meeting at a junction (also called node), then

$$\sum_{j=1}^K I_j = 0 \quad \text{or, } I_1 + I_2 + \dots + I_k = 0$$

KCL can be stated in another way. The sum of currents flowing from a junction is equal to the sum of currents flowing towards it.

■ Kirchhoff's Voltage Law (KVL):-

It states that at any instant the algebraic sum of voltages around a closed loop or circuit is zero. For a closed loop having K elements,

$$\sum_{j=1}^K v_j = 0$$

Teacher's Signature : _____



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