Experiment # 6

Verification of Kirchhoff's Voltage Law (KVL) using Breadboard

Objective:

To verify Kirchhoff's Voltage Law (KVL) on Breadboard and know relationship between varying resistors and applied voltage.

Apparatus:

- 1. DMM
- 2. Resistors
- 3. DC power supply

Procedure:

1) Design the following circuit on breadboard

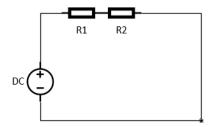


Figure 1 Circuit diagram

- 2) Using DMM find resistance of the resistors and note down in the table.
- 3) Find voltage of DC source and voltage drop on each resistor and note down in the table.
- 4) Add the voltage drops and compare with the source voltage by finding the percentage error.

Observation:

S.no	Vs	R1	R2	V1	V2	V1+V	Erro	Percentage
	(actual)	(Measured)	(Measured)	(Measured) (V)	(Measured) (V)	2 (V)	r	Error (%)
1.	5							
2.	10							

3.	15				
4.	20				
5.	30				