EXPERIMENT NO:	**2**
TUTOR NAME:	Dr. Ameer Al-khaykan, Safaa Aboud Kadhim, Huda Rahim
PROGRAMME:	Electrical Circuit
SUBJECT:	Electrical Circuit lab
COURSEWORK TITLE:	Series and parallel Resistor's connection

2.1.Objective:

To study the properties of series and parallel connection.

2.2.Tools needed:-

1. DC voltage supply.

1. Set of wires.

2. Resistances.

3. Multi-meter.

2.3.Theory :

1. **The Series Circuit**

A SERIES CIRCUIT or ''series-connected circuit'' is a circuit having JUST ONE CURRENT PATH. Thus, Fig.(1) is an example of a ''series circuit'' in which a battery of constant potential difference V volts, and three resistances, are all connected ''in series''.

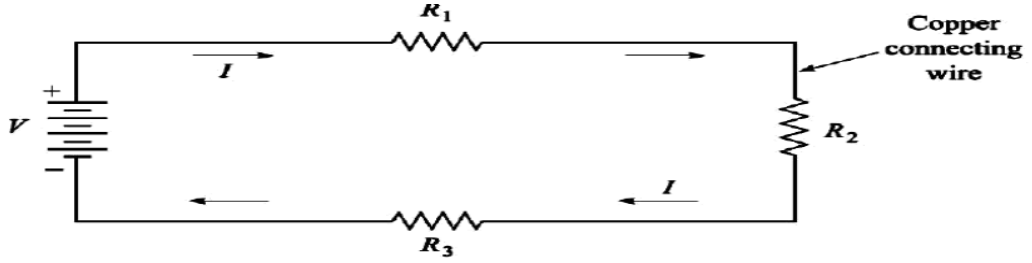

Fig.(1)

2. The Parallel Circuit

A PARALLEL circuit is one in which the battery current divides into a number of ‘‘parallel paths.’’ This is shown in Fig.(2), in which a battery, of constant V volts, delivers a current of I amperes to a load consisting of any number of n resistances connected ‘‘in parallel.’’

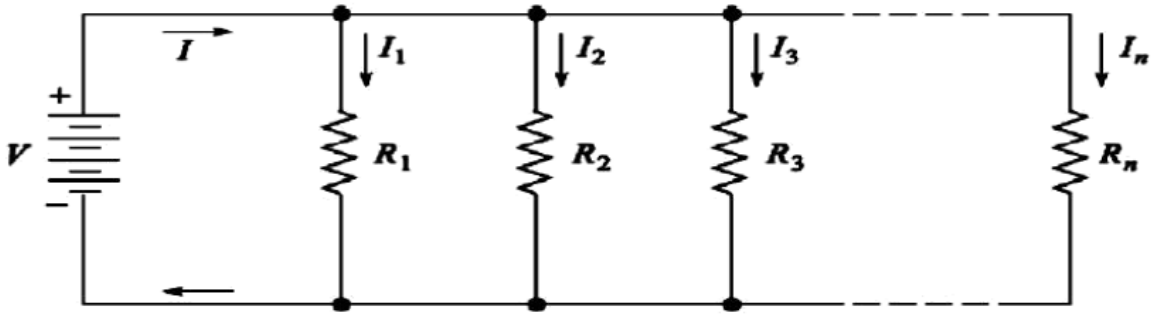

Fig.(2)