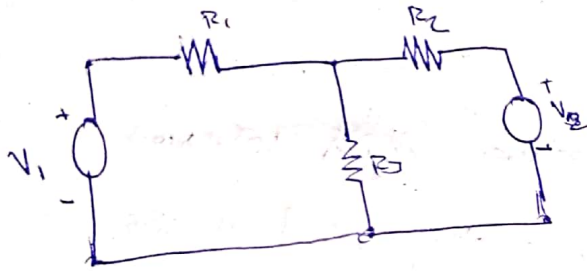


# Network Theory:

## ① Network terminology:

Network analysis - node voltage  
[ Junction node voltage



no of nodes:


- Junction node → Three & more ckt element
- Branch: defined as the path in a network which connects one junction point to the next junction point.

no of branches: 03

→ loop  mesh:

→ defined closed path in a network trace one point to same

Branch current & mesh current:

- ~~branch~~ mesh current is a flowing through all elements of a closed loop  mesh.
- Branch current is a current flowing through the branch

node voltage:

A node voltage is a voltage b/n any two nodes in a network.

## Python:

### ① Interactive data visualization with bokeh:

→ Introduction to bokeh.

→ installing bokeh install with pip ~~terminal~~ form the terminal:

pip install bokeh

you use pip 3:

pip 3 install bokeh

- plotting triangle & circle glyphs (practice)

→ use triangle & circle instead of line

- using bokeh with pandas

- plotting education data

- Note on loading excel files

The pandas library may require the xlsx module as a dependency; if you get an error like module not found error, no module named 'xlsx', you can fix the error by installing xlsx:

pip install xlsx

pip 3 install xlsx

- plot properties: added to change the style of the plot

import pandas

- plotting weather data

- visual attributes

- time-series plots

- more visualization examples

- plotting time intervals of the nation.

- How to implement