#### **NETWORKING & SYSTEM ADMINISTRATION LAB**

#### **Experiment No: 16**

Name: ALLEN S PHILIP

Roll No: 20 Batch: RMCA-A Date: 09/06/2022

#### Aim

Networking commands and utilities

### **Procedure**

**\$ifconfig** - To list the network interfaces and its ip, net mask and other details [options]

-s – To list interface ith mtu ,flag,etc

Sip addr show- To list network devices ip with numbered list

**\$ping <ip> -** To test connection

[option]

- -D with timestamp
- -i wait optional seconds between sending each packet
- -I to check the connection through an interface

# **Traceroute**

\$sudo apt install traceroute - Installation

**\$traceroute <ip> -** To trace route.

[option]

- -T list route packets using tcp protocol
- -I list packet route using icmp protocol
- -i route packets through specified interface

syn: traceroute -i <interface name>

# -r - Bypass normal routing tables

ex: traceroute 8.8.8.8

**\$netstat -tnlp -** network statitics

\$ss (socket statitics) - info about sockets

**\$nslookup <domain> -** show information from name servers

## **Output Screenshot**















