Experiment: 2

Student Name:Harsh Kumar **UID:22BCS15754**
Branch:BE-CSE **Section/Group:FL_IOT_603(B)**
Semester: 5th **Date of Performance:26/07/24**
Subject Name:Computer Networks
Subject Code:22CSH-312

1. **Aim:** Study of basic network command and Network configuration commands.

2. **Requirements(Hardware/Software):**

1) Software Requirements: CommandPrompt.
2) Hardware Requirements:
• Processor-any suitable processor e.g.Celeron
• Hard Disk-minimum 20 GB IDE Hard Disk
• Main Memory:- 128 MB RAM
• Removable Drivers-1.44 MB Floppy Disk Drive-52X IDE CDROM Drive
• PS/2 HCL Keyboard and Mouse

3. **Procedure:**

Students have to understand basic networking commands eg. Ping, tracertetc. Go to command prompt and type the commands.

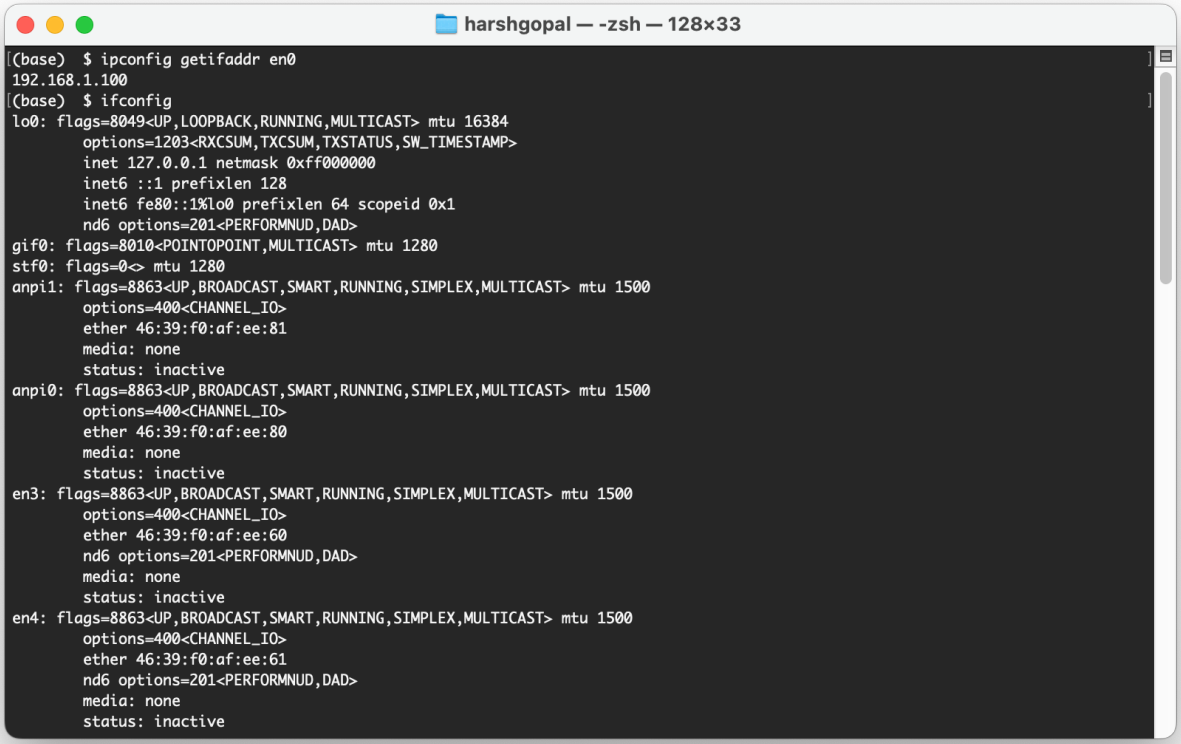
- Ping
- Ipconfig
- Tracert
- Nslookup
- Netstat
- Arp
- Rarp

- Hostname
- Pathping

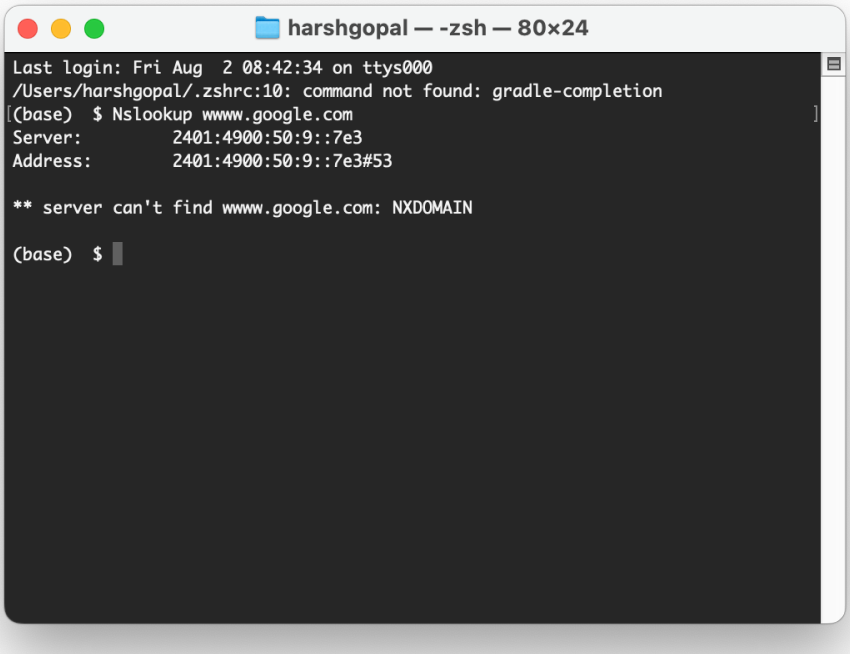
4. Output:

Hostname:

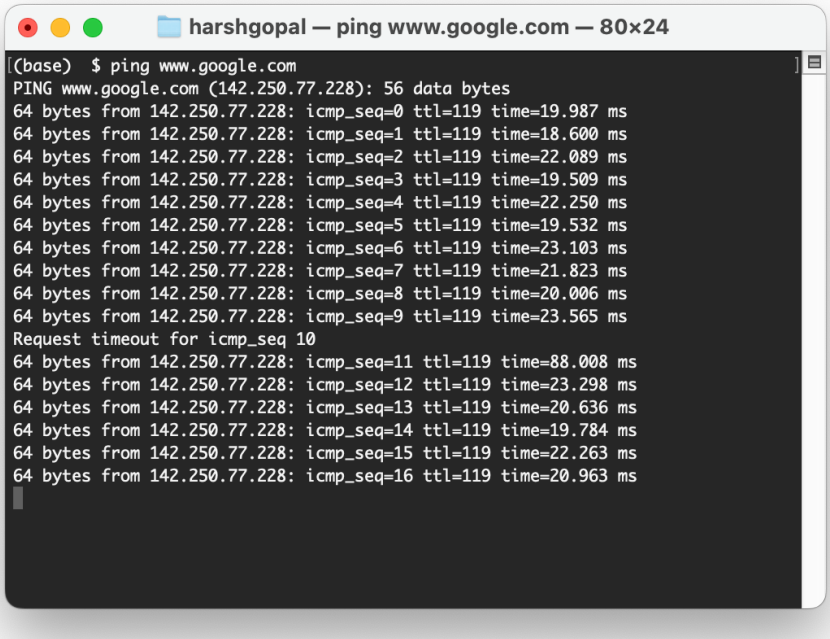
Ipconfig:



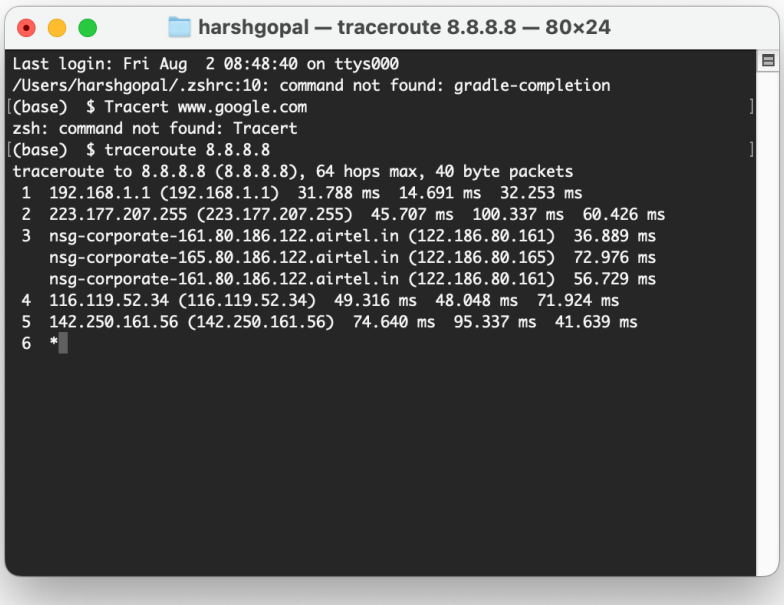
Nslookup:



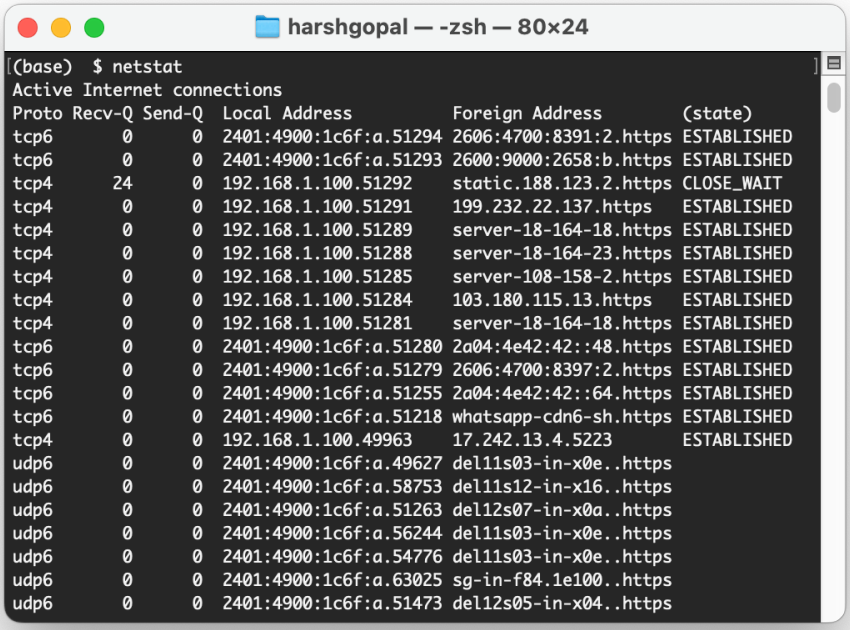
Ping:



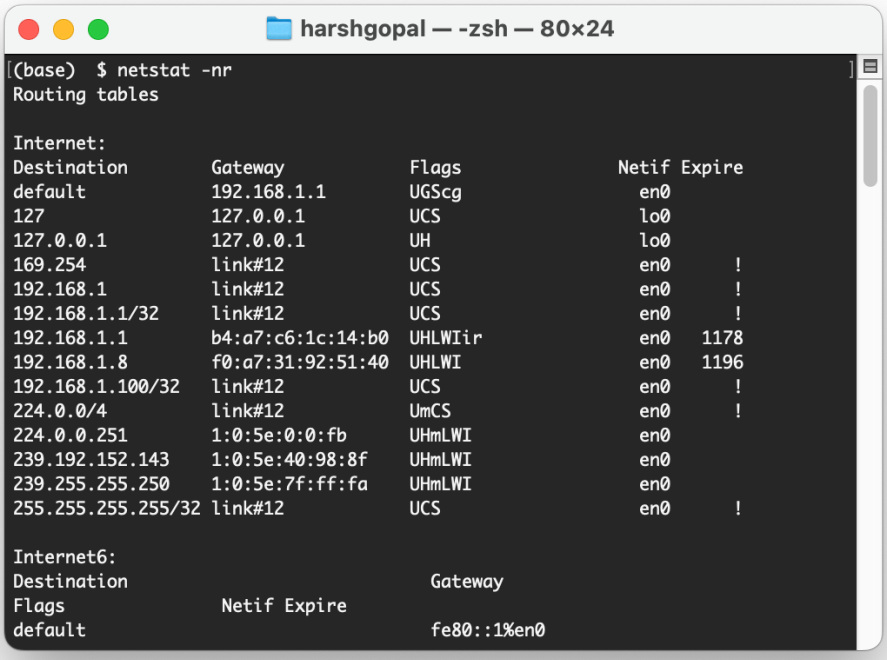
Tracert:



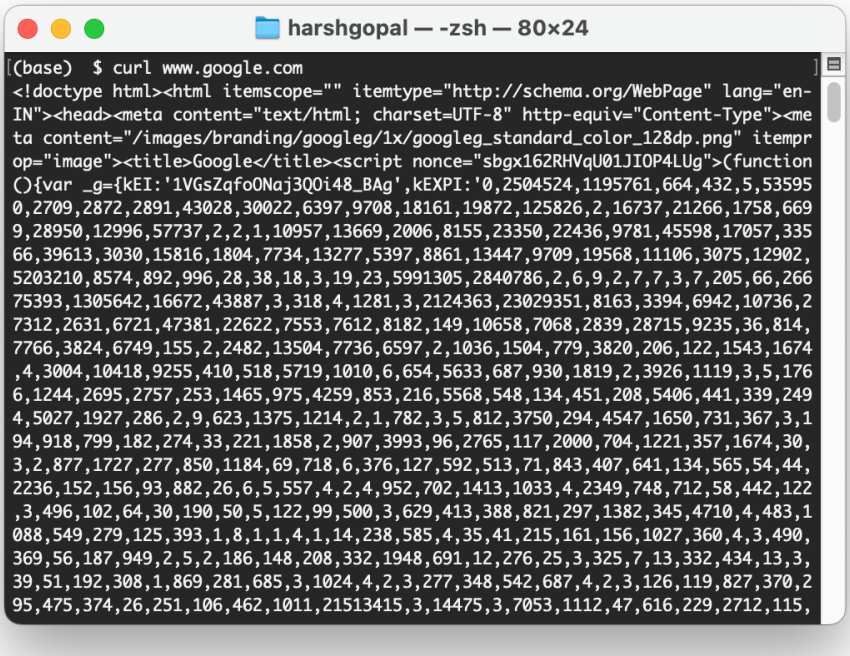
Netstat:



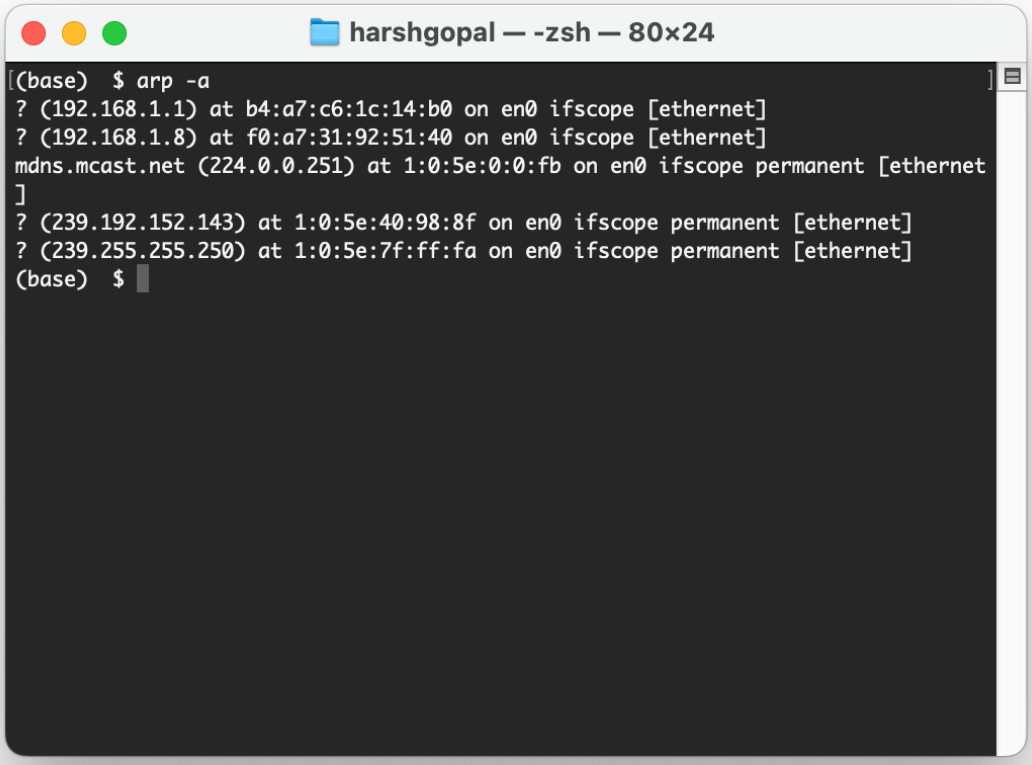
Rout Print/netstat-nr



Curl:



Arp:



5. Learning Outcome:

i) Understand how to display and configure IP addresses, subnet masks, and other interface settings.
ii) ii) Learn to manage network interfaces, routing tables, and IP addresses.
iii) Identify active connections and troubleshoot network issues.
iv) Verify the reachability of a network device and measure round-trip time for messages sent.
v) Diagnose routing issues and identify the path packets take across the network.