## 1. (i) arp command

- Resolution Protocol). It also allow a complete dump of the ARP cache.
- · The primary function of ARP protocol is to resolve the IP address of a system to its mac address and hence it works had between Data link layer and Network layer.
- · Syntax: asp [v] [-i il] [H type] a [hostnome]
- (ii) if config (interface configuration) command
  - · This command used to configure the kanal-resident network interfaces. This also used to assign the IP address and ned mask to an interface or to enable or disable a given interface.
  - · Syntax: if config [... OPTIONS] [INTERFACE]

## (iii) Youte command

· This command is used when we want to work with the kernal's IP routing table. It is used for showing or manipulating the kernal's IP routing table.

## (iv) host command

- · This command is used for DNS (Domain Name System) lookup operations. It is used to find the IP address of a particular domain name.
- . Syntax: host [-acliriTWV] [-cclass] [-N ndots] [-t type]
  [-R number] [-m flog] hostname (sewer)

(1v) ping command

· PING (Acket Internet Grope) command Is used to check the network connectivity between host and

server. It sends ICMP ECHO\_REQUEST to network hosts. This command takes IPaddoess or the URL and as input and sends a data packet to the specified address with the message "PING" and get the response from the seven this time is recorded which is called latercy.

(Vi) topdump command

· It is used to capture, filter and analyze network traffic such as PCP/IP packets going through your system. (vii) netstat command

· This command displays various network related information such as network connections, routing tables, interface statistics, masquerade connections, multicast

memberships etc.

<u>Interface</u> padwess

I Paddress Interface 10.0.2-15

192.168.1.2

h2 { etho ethi lo

127.0.0-1 10.0.2.15

192-166.1.3

127.0.0.1 10.0.2.15

ha { eth 1

192.168.2.2

127.0.0.1

Interface I Paddress 10.0-2.15 192.168.2.3 127.0.0.1 10.0.2.15 192-168-3-2 127-0-0-1 10.0.2.15 ethol ethol ethol ethol ethol ethol 192-168-1.1 192-168-101-1 192.168.102.1 127.0-0-1 10.0-2-15 192.168.2.1 192.168.101.2 192.168.103.1 127.0.0.1 Tog (etho) eth 1 eth 2 eth 3 10.0.2.15 192.166.3. 1 192.168.102.2 192.168.103.2 127.0.0.1