LAB: Assignment 3

**Objective: To understand some Networking Commands**

**Instructions: The instructor is required to run and discuss the output of the following networking command on DOS prompt.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hostname | ipconfig | getmac | ping | arp |
| nbtstat | route | path | pathping | netstat |
| tracert |  |  |  |  |
|  |  |  |  |  |

Practice the command mentioned in above table and fill in the blanks below:-

**Working**

**Command**

command is one of the most often used networking utilities for detecting devices on a network and for troubleshooting network problems.

command that displays the host name of your machine

frequently used utility that is used for finding network information about your local machine like ip addresses, dns addresses etc.

diagnostic tool for troubleshooting netbios problems

used for displaying information about tcp and udp connections and ports.

command that shows the mac address of your network interfaces

for showing the **address resolution cache**. this command must be used with a command line switch **-a** is the most common.

command prints the path. if all routers on the path are functional, this command prints the full path.

command specifies the location where ms-dos should look when it executes a command.

command allows you to make manual entries into the network routing tables.

after sending out packets from you to a given destination, it analyzes the route taken and computes packet loss on a per-hop basis.

1. ping
2. hostname
3. ipconfig
4. nbtstat
5. netstat
6. getmac
7. arp
8. tracert
9. path
10. route
11. pathping