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| Expt.No. | _____ |
| Date     | _____ |
| Page No. | 24    |

## Practical : 06

Aim: configure Internet connection and use of IP configuration , ping and tracet and netstat utilities to debug the network.

Software required : command prompt

Theory :

### ① IP configuration :

In window configuration is console Application designation to run windows command prompt. this utility allows you to get ip addresses information of a windows computer . it also allow some control over your network adapters : if addresses (DHCP assigned) even your DNS cache . IPconfig replace the address older utilit,

from command prompt type ipconfig to run ~~other~~ utility with default option. the output of default command contains the IP address , network mask and gateway from all physical virtual network adaptar



### (ii) Ping :-

Ping is a computer network administrator software utility used to test reachability of host on a Internet protocol network (IP). It is available for virtual all operating system that have networking compatibility include most embedded network administrative software.

Ping measure round roundtrip time from message sent from originating host to destination computer that are echoed back to source.

### (iii) Tracert :-

In computing tracert are networking diagnostic command for display possible routes (Path) and measuring transit delay of packets across an internet protocol network. This history of route is recorded as a round trip time of packet receive from each successive host (remote node) in route (path). The sum of mean times in route (path) - The sum of mean times in each hop is measure of total time spent to establish con.



Expt. No.

Date

Page No. 29

## Netstat:-

In computing netstat is a command line network utility that displays network connection for transmission control.

The network static command is a networking tool used to troubleshooting and configure that can also serve as monitoring tool for connection over the network. Both incoming and outgoing connection rating table, port listening and usage statistics are common use for this command.

Conclusion: Thus we work with internet and run the IP config, ping, tracert and netstat command on command prompt and note down how they work and display the network information.

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