### ASSIGNMENT-02

	1/00/01/11/11/12
	1. Execute the following commands and show the output -
	i. ipconfig ii. ipconfiglall iii. ping iv. nslookup v. netstat
	vi. arp
A COLONIA CONTRACTOR OF THE COLONIA CONTRACTOR OF THE COLONIA	Ans:
	i. ipconfig) This command will show whether we have established
	LAN using effernet cable or through wifi LAN adoptar,
	Alongwith these, this command will also show ipro. address of our computer.
	Output:
	Windows IP Configuration
	Ethernet adapter Ethernet:
	Media state: Media disconnected
	Connection-specific DNS sulfux: Wireless LAN adapter Wifi:
	IPv4 Address
	Subnet Mask
	Default Gateway te80:: 86ct:
	2138:1600
	• 3227 % 2
	192.168.40.167
	suction. Any propert which and will all
	ii. ipconfig (all) this command will show the MAC address of our system. Any packet which goes with our computer, will use this address in layer 2/ data link layer.
	Windows LAN adapter Wifi:
	Connection specific Wi-fi DNS suffix:
	Physical address
	25 55 - 5

GE-FE-EB

This command will help us to check whether a given

IP is reachable from our system or not. If we have

received 4 packets with 0% loss we can verify that

communication is established with the IP. Invalid IP

will cause 100% loss.

Output: (For ping 216.58.200.164)

pinging 216.58.200.164 with 32 bytes of data:

Reply from 216.58.200.164: bytes = 32 times = 292 ms TIL = 115 Reply from 216.58.200.164: bytes = 32 times = 65 ms TIL = 115 Reply from 216.58.200.164: bytes = 32 times = 98 ms TIL = 115 Reply from 216.58.200.164: bytes = 32 times = 101 ms TIL = 115 Ping statistics for 216.58.200.164:

Packets: Sent = 4, Received = 4, Lost = 0 (0% Loss).

Approximate round trip times in milli-seconds:

Minimum = 65 ms, Maximum = 292 ms, Average = 139 ms

iv. nslockup) This command will help us to know about the IP address of the DNS server. And after this, we will press ctrl+c to about the execution of this command.

Output:

Default Server: Unknown

Address: 192.168.40.167

V. netstat This command will display a variety of statistics about a computer's active TCP IP connections. This is most useful if we are having trouble with TCP IP applications such as http and tlp.

Output:

Active Connections

Proto Local Address Foreign Address State

TCP 127.0.0.1: 1521 DESKTOP: 49673 ESTABLISHED

TCP 127.0.0.1: 49673 DESKTOP: 1521 ESTABLISHED

TCP [2401: 4900: 1040: 9de9: 300a: d19e: 84d9: 6abd
:57453[2606: 4700: C812: 19f3]: http

CLOSE\_WALT

vi. arp-a) This command will show the IP address of our system alongwith the IP and MAC address of our router

# Output:

Interface: 192.168.40.126 ----- 0x2

	2.12	
Internet Address	Plansiant Adda	
192.168.40.167	Salasi Isalez	type
192.168.40.225	CC-60-62-72-53-63	dynamic
224.0.0.22	tt-tt-tt-tt-tt	static
224.0.0.251	01-00-50-00-00-00	static
	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static
239.255.255.250	01-00/5e-7f-ff-fa	static
255.255.255.255	tt-tt-tt-tt-tt	static
		SLUCIO

2. Import 2 pc's and configure them. Show the use of ping command to communicate between them in cisco tracer, Now discuss the steps.

#### Ans:

Steps > 1. Open the CISCO Packet Tracer, then select the End devices from the bottom left corner, then salect 2 pc's (Generic) and insert into the workspace.

ii. After that, go to the connections at bottom left corner

and select copper cross-over.

iii. Click on the first/pc, select FastEthernet L), then go to the second pd, select fast Ethernet() and the connection is made between them,

iv. Now, right click on the first pc again and a window will open and having various options like physical, configure, Desktop, costom interface. click on the desktop and select IP configuration and then give IP address: 10.10.10.0 and give subject mask as default. Now, note down the link local address of 2nd pc which is - For 2nd pc, give IP address: Link Local Address : NFE80: 200; 85Ff: FEIS; AACB V. Follow the step 4 from 2nd pc [IP address: 10.10.10.1] vi. Now click on first pc go to desktop -> command prompt type, ping 10.10.10.1 to check 2 pc's can communicate with each other or not.

## Use of ping command)

ping [-n count |- V TOS |-t] target To communicate between 2 pc's we use 'ping' command. We go to the first po's command prompt and type ping second pc's IP address. Then we will see the output.

Syntax ) ping 10.10.10.1

pinging 10:10.10:1 with 32 bytes of data. Reply from 10.10.10.1: bytes = 32 time = 1 ms TIL = 128 Reply from 10.10.10.1: bytes = 32 time = 0 ms TIL = 128

Reply from 10.10.10.11: bytes = 32 time = 0 ms TIL = 128 Reply from 10.10.10.1: bytes = 32 -time = 0 ms TIL = 128

Ping statistics from 10.10.10.1:

Packets: Sent=4, Received=4, Lost= ofo1. Loss). Approximate round trip times in milli-seconds: Minimum = oms, Maximum = 1/ms, Average = 0 ms.