Worksheet – 1.2

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Semester: 4th
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Subject Name: Computer Network Lab
Subject Code: 20CSP-257

1. Aim/Overview of the practical:

Implement all the networking commands and show their working as output.

2. Task to be done/ Which logistics used:

- Implementation of Ping, Ipconfig, Tracert, Arp, Netstat, Nslookup, Hostname and Pathping etc.

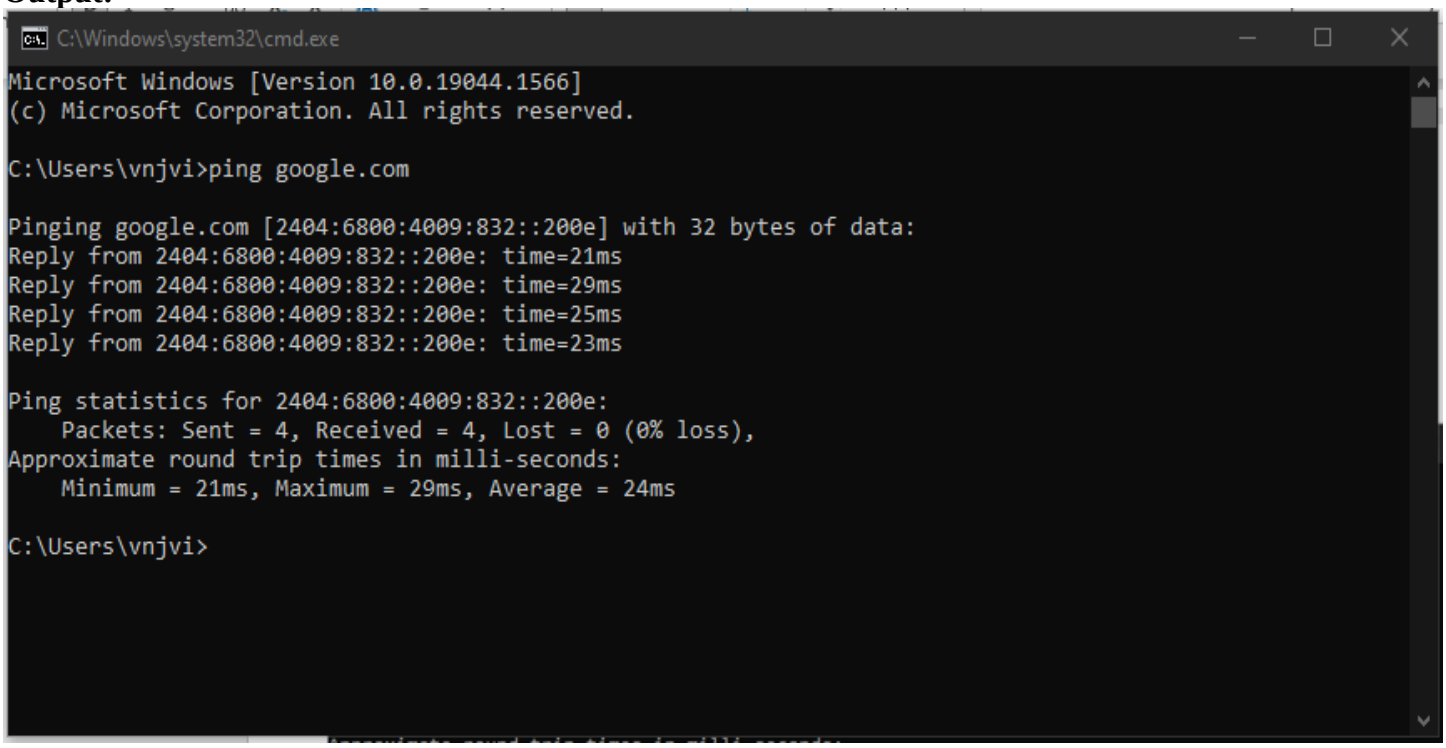
3. Steps for experiment/Code with Result/Output:

Ping:

Syntax: ping <<destination host IP or name>>

Code: ping google.com

Output:

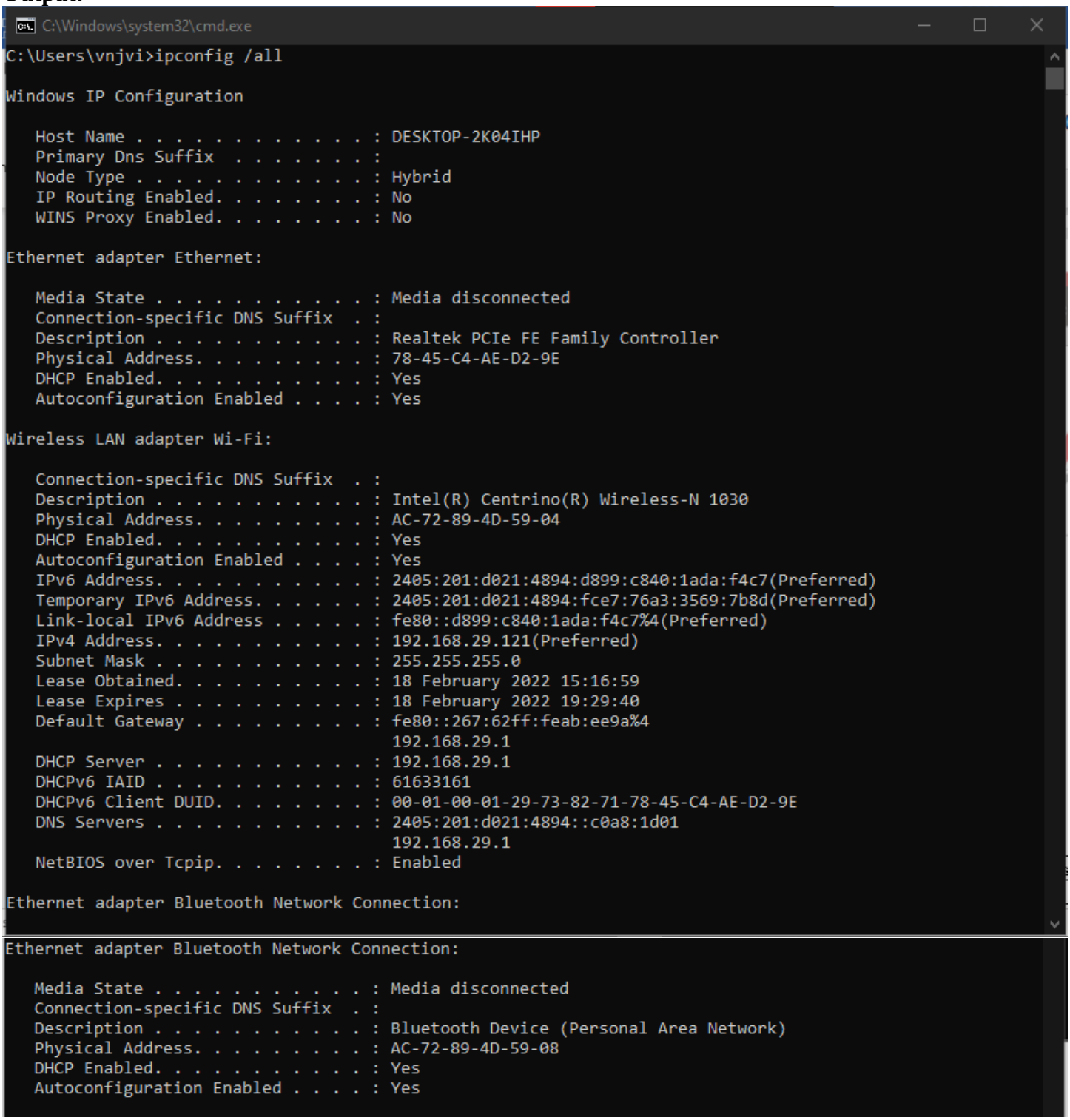


IPConfig:

Syntax: ipconfig <<parameter>>

Code: ipconfig /all

Output:

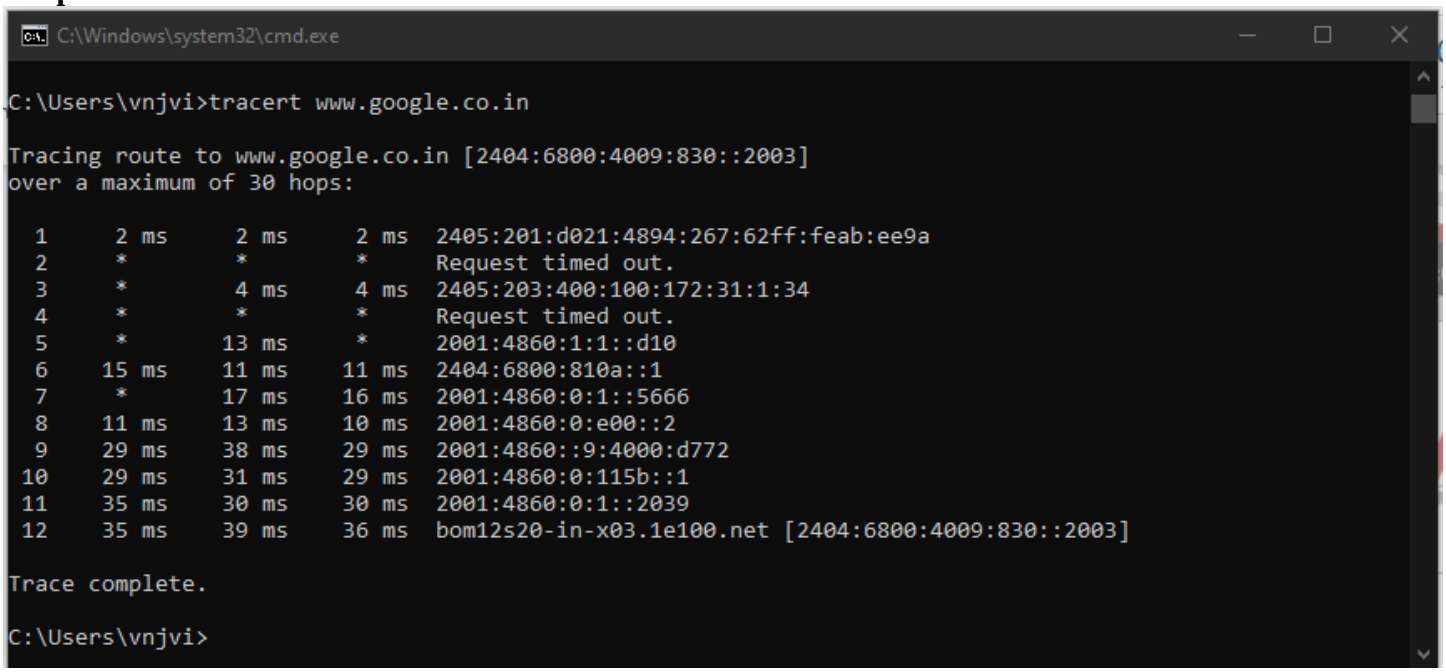


Tracert:

Syntax: tracert << destination name or IP address >>

Code: tracert www.google.co.in

Output:

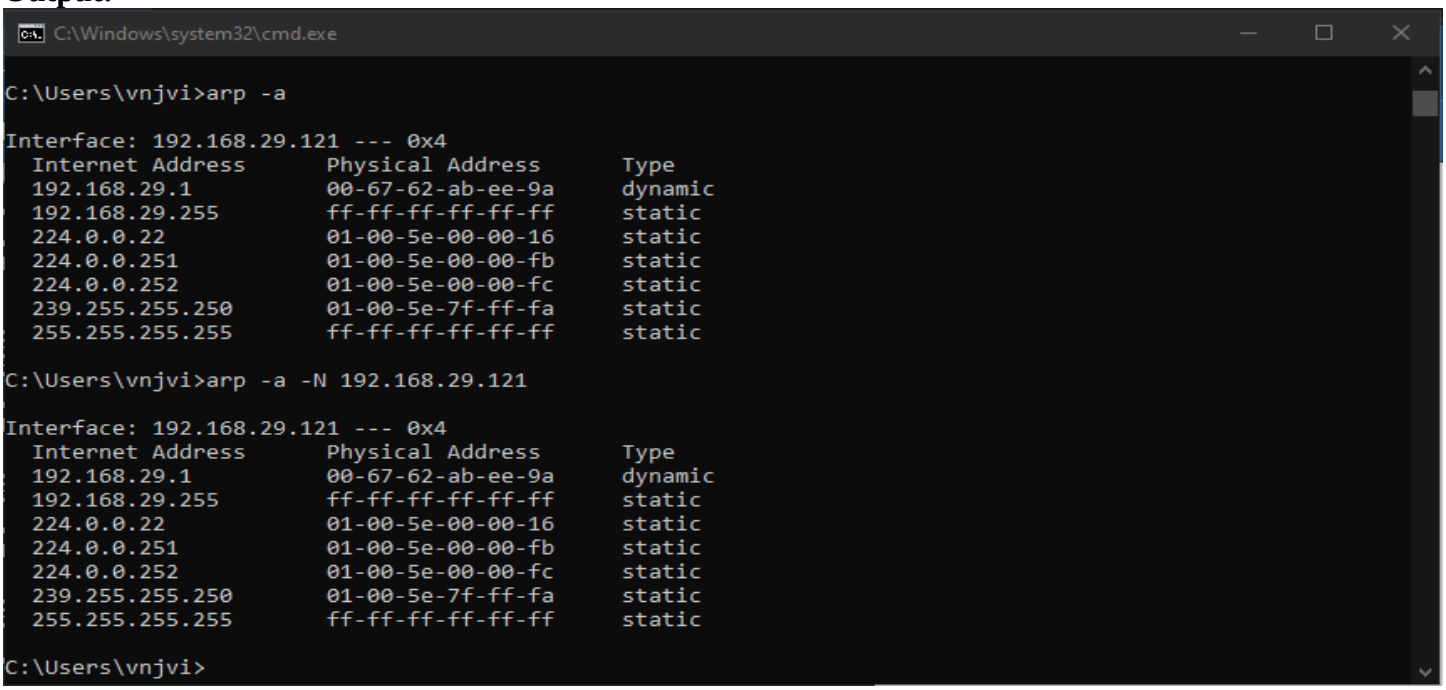


Arp:

Syntax: arp << Options >>

Code: arp -a & arp -a -N 192.168.29.121

Output:



Netstat:

Syntax: netstat << Options >>

Code: netstat

Output:

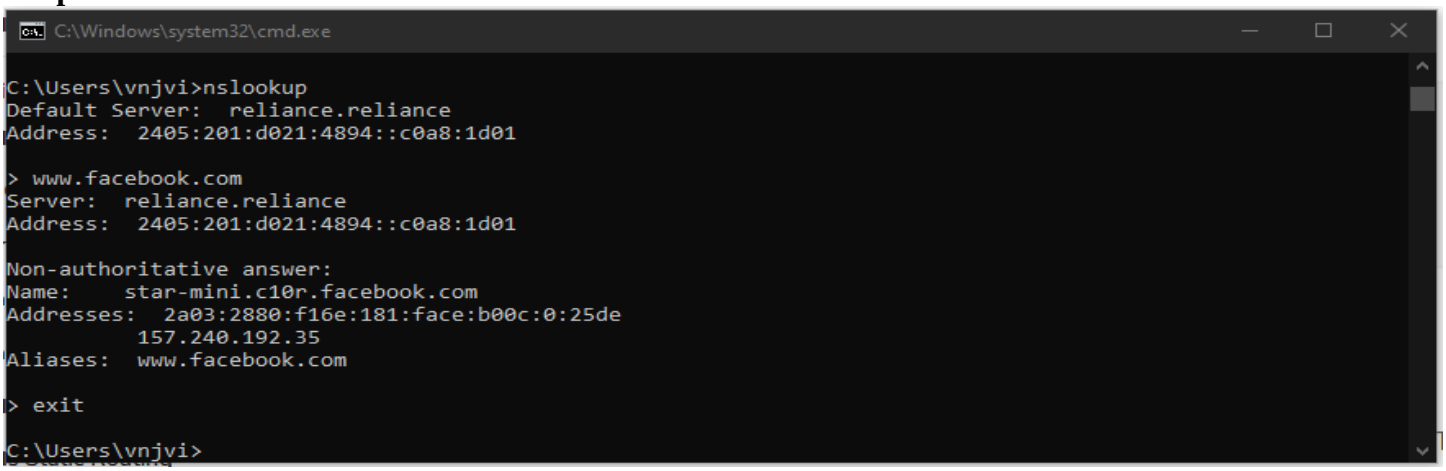
```
C:\Windows\system32\cmd.exe
C:\Users\vnjvi>netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    127.0.0.1:49724        DESKTOP-2K04IHP:49725  ESTABLISHED
  TCP    127.0.0.1:49725        DESKTOP-2K04IHP:49724  ESTABLISHED
  TCP    127.0.0.1:49730        DESKTOP-2K04IHP:49731  ESTABLISHED
  TCP    127.0.0.1:49731        DESKTOP-2K04IHP:49730  ESTABLISHED
  TCP    127.0.0.1:49738        DESKTOP-2K04IHP:49739  ESTABLISHED
  TCP    127.0.0.1:49739        DESKTOP-2K04IHP:49738  ESTABLISHED
  TCP    127.0.0.1:49743        DESKTOP-2K04IHP:49744  ESTABLISHED
  TCP    127.0.0.1:49744        DESKTOP-2K04IHP:49743  ESTABLISHED
  TCP    127.0.0.1:49749        DESKTOP-2K04IHP:49750  ESTABLISHED
  TCP    127.0.0.1:49750        DESKTOP-2K04IHP:49749  ESTABLISHED
  TCP    127.0.0.1:49774        DESKTOP-2K04IHP:49775  ESTABLISHED
  TCP    127.0.0.1:49775        DESKTOP-2K04IHP:49774  ESTABLISHED
  TCP    127.0.0.1:63737        DESKTOP-2K04IHP:63738  ESTABLISHED
  TCP    127.0.0.1:63738        DESKTOP-2K04IHP:63737  ESTABLISHED
  TCP    127.0.0.1:63741        DESKTOP-2K04IHP:63742  ESTABLISHED
  TCP    127.0.0.1:63742        DESKTOP-2K04IHP:63741  ESTABLISHED
  TCP    127.0.0.1:63779        DESKTOP-2K04IHP:63780  ESTABLISHED
  TCP    127.0.0.1:63780        DESKTOP-2K04IHP:63779  ESTABLISHED
  TCP    127.0.0.1:63795        DESKTOP-2K04IHP:63796  ESTABLISHED
  TCP    127.0.0.1:63796        DESKTOP-2K04IHP:63795  ESTABLISHED
  TCP    127.0.0.1:63799        DESKTOP-2K04IHP:63800  ESTABLISHED
  TCP    127.0.0.1:63800        DESKTOP-2K04IHP:63799  ESTABLISHED
  TCP    127.0.0.1:63806        DESKTOP-2K04IHP:63807  ESTABLISHED
  TCP    127.0.0.1:63807        DESKTOP-2K04IHP:63806  ESTABLISHED
  TCP    127.0.0.1:63824        DESKTOP-2K04IHP:63825  ESTABLISHED
  TCP    127.0.0.1:63825        DESKTOP-2K04IHP:63824  ESTABLISHED
  TCP    127.0.0.1:63827        DESKTOP-2K04IHP:63828  ESTABLISHED
  TCP    127.0.0.1:63828        DESKTOP-2K04IHP:63827  ESTABLISHED
  TCP    127.0.0.1:63836        DESKTOP-2K04IHP:63837  ESTABLISHED
  TCP    127.0.0.1:63837        DESKTOP-2K04IHP:63836  ESTABLISHED
  TCP    127.0.0.1:63883        DESKTOP-2K04IHP:63884  ESTABLISHED
  TCP    127.0.0.1:63884        DESKTOP-2K04IHP:63883  ESTABLISHED
  TCP    127.0.0.1:63915        DESKTOP-2K04IHP:63916  ESTABLISHED
  TCP    127.0.0.1:63916        DESKTOP-2K04IHP:63915  ESTABLISHED
  TCP    127.0.0.1:63917        DESKTOP-2K04IHP:63918  ESTABLISHED
  TCP    127.0.0.1:63918        DESKTOP-2K04IHP:63917  ESTABLISHED
  TCP    127.0.0.1:63926        DESKTOP-2K04IHP:63927  ESTABLISHED
  TCP    127.0.0.1:63927        DESKTOP-2K04IHP:63926  ESTABLISHED
  TCP    127.0.0.1:63958        DESKTOP-2K04IHP:63959  ESTABLISHED
  TCP    127.0.0.1:64027        DESKTOP-2K04IHP:64028  ESTABLISHED
  TCP    127.0.0.1:64028        DESKTOP-2K04IHP:64027  ESTABLISHED
  TCP    192.168.29.121:49677   20.197.71.89:https     ESTABLISHED
  TCP    192.168.29.121:49747   52.114.14.223:https    ESTABLISHED
  TCP    192.168.29.121:64012   ec2-44-226-241-1:https  ESTABLISHED
  TCP    192.168.29.121:64142   49.44.113.154:https    CLOSE_WAIT
  TCP    192.168.29.121:64193   bam-7:https            TIME_WAIT
  TCP    192.168.29.121:64197   140:https              TIME_WAIT
  TCP    192.168.29.121:64199   20.44.229.112:https    TIME_WAIT
  TCP    192.168.29.121:64200   52.109.56.20:https     TIME_WAIT
  TCP    192.168.29.121:64201   52.109.56.20:https     TIME_WAIT
  TCP    [2405:201:d021:4894:fce7:76a3:3569:7b8d]:49819  [2a01:111:f100:7000::6fdd:5252]:https  ESTABLISHED

  TCP    [2405:201:d021:4894:fce7:76a3:3569:7b8d]:49877  [2405:200:1630:4a7::57]:https  CLOSE_WAIT
  TCP    [2405:201:d021:4894:fce7:76a3:3569:7b8d]:64144  [2405:200:1608:1731::312c:715f]:https  CLOSE_WAIT
  TCP    [2405:201:d021:4894:fce7:76a3:3569:7b8d]:64145  [2405:200:1608:1731::312c:715f]:https  CLOSE_WAIT
  TCP    [2405:201:d021:4894:fce7:76a3:3569:7b8d]:64202  [2620:1ec:42::132]:https  ESTABLISHED

C:\Users\vnjvi>
```

Nslookup:

Syntax: nslookup <<exit | finger | help | ls | lserver | root | server | set | view>> <<options>>

Code: nslookup

Output:



Hostname:

Syntax: hostname <<options>>

Code: hostname

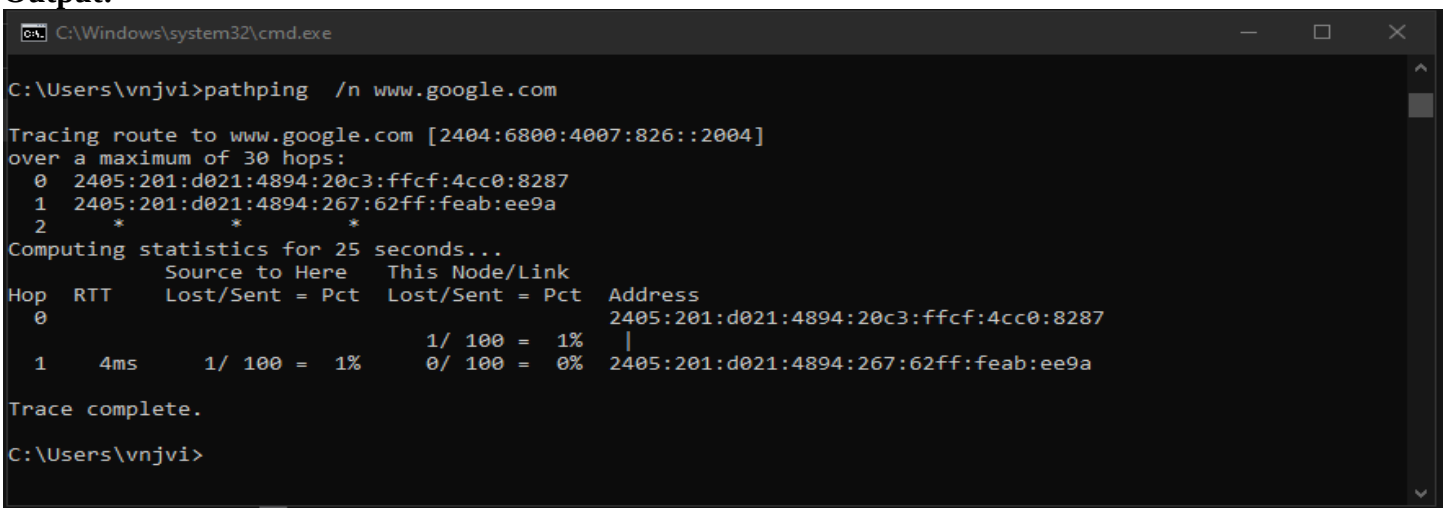
Output:

Pathping:

Syntax: pathping [/n] [/h <maximumhops>] [/g <hostlist>] [/p <Period>] [/q <numqueries> [/w <timeout>] [/i <IPaddress>] [/4 <IPv4>] [/6 <IPv6>][<targetname>]

Code: pathping /n www.google.com

Output:



Learning outcomes (What I have learnt):

1. Studied about various type of Networking command

2. Executed all type of networking command and observed the output.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			