EXPERIMENT 2

1)

C:\Users\students>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . :

Link-local IPv6 Address . . . . . : fe80::852e:327a:692c:43a3%11

IPv4 Address. . . . . . . . . . . : 172.20.34.222

Subnet Mask . . . . . . . . . . . : 255.255.0.0

Default Gateway . . . . . . . . . : 172.20.6.1

C:\Users\students>

2)

C:\Users\students>ping 172.20.34.222

Pinging 172.20.34.222 with 32 bytes of data:

Reply from 172.20.34.222: bytes=32 time<1ms TTL=128

Reply from 172.20.34.222: bytes=32 time<1ms TTL=128

Reply from 172.20.34.222: bytes=32 time<1ms TTL=128

Reply from 172.20.34.222: bytes=32 time<1ms TTL=128

Ping statistics for 172.20.34.222:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\students>

3)

C:\Users\students>netstat

Active Connections

Proto Local Address Foreign Address State

TCP 172.20.34.222:5357 PAD:50853 TIME\_WAIT

TCP 172.20.34.222:5357 PAD:50869 TIME\_WAIT

TCP 172.20.34.222:7680 172.20.20.3:63731 TIME\_WAIT

TCP 172.20.34.222:7680 172.20.20.3:63763 TIME\_WAIT

TCP 172.20.34.222:7680 172.20.20.4:65021 TIME\_WAIT

TCP 172.20.34.222:7680 172.20.20.4:65125 TIME\_WAIT

TCP 172.20.34.222:7680 172.20.20.13:49195 ESTABLISHED

4)

C:\Users\students>arp -a

Interface: 172.20.34.222 --- 0xb

Internet Address Physical Address Type

172.20.6.1 00-1a-8c-6b-b3-da dynamic

172.20.20.2 98-90-96-c3-01-8d dynamic

172.20.20.3 98-90-96-be-e4-e5 dynamic

172.20.20.4 98-90-96-be-e4-05 dynamic

172.20.20.5 98-90-96-c1-e6-92 dynamic

172.20.20.13 98-90-96-c1-ee-41 dynamic

172.20.20.17 98-90-96-c1-f1-39 dynamic

172.20.20.20 98-90-96-c2-fb-6b dynamic

172.20.20.23 98-90-96-c1-e8-b1 dynamic

172.20.20.32 98-90-96-be-e1-42 dynamic

172.20.20.42 ec-b1-d7-31-90-7e dynamic

172.20.20.46 98-90-96-be-5a-ba dynamic

172.20.20.48 98-90-96-be-e1-ae dynamic

172.20.20.49 98-90-96-c1-ef-93 dynamic

172.20.20.50 a0-8c-fd-79-80-e9 dynamic

172.20.20.64 98-90-96-be-e0-ea dynamic

172.20.30.17 d8-c0-a6-80-31-79 dynamic

172.20.30.32 4c-eb-bd-81-ad-a5 dynamic

172.20.30.37 d0-d0-03-3a-1a-88 dynamic

172.20.30.49 5c-ea-1d-44-35-17 dynamic

172.20.30.50 20-4e-f6-a4-39-2f dynamic

172.20.30.65 f0-18-98-b5-a4-f5 dynamic

172.20.30.87 24-b6-fd-05-77-87 dynamic

172.20.30.90 2c-db-07-86-ef-b6 dynamic

172.20.30.96 28-11-a8-e4-d1-67 dynamic

172.20.30.97 b4-ae-2b-dc-fa-97 dynamic

172.20.30.99 8c-c8-4b-89-2f-45 dynamic

172.20.30.111 c0-b8-83-23-fe-33 dynamic

172.20.30.113 58-00-e3-6b-31-f3 dynamic

172.20.30.138 78-45-c4-1d-7a-31 dynamic

172.20.30.142 78-45-c4-1c-41-0e dynamic

172.20.30.157 48-e7-da-27-63-6b dynamic

172.20.30.173 98-90-96-c1-f2-21 dynamic

172.20.30.182 28-cd-c4-ad-12-e9 dynamic

172.20.30.186 5e-4f-9c-57-3a-b2 dynamic

172.20.30.191 80-c5-f2-bf-8a-67 dynamic

172.20.30.218 c0-b5-d7-9c-58-3b dynamic

172.20.30.236 fc-3f-db-d8-82-57 dynamic

172.20.30.237 fc-01-7c-89-8a-e5 dynamic

172.20.30.250 fc-34-97-dd-00-70 dynamic

172.20.31.32 74-df-bf-69-67-ab dynamic

172.20.31.40 5c-ba-ef-d5-2a-73 dynamic

172.20.31.43 c8-94-02-48-70-19 dynamic

172.20.31.47 00-1c-c0-95-ca-ed dynamic

172.20.31.65 54-a0-50-80-34-61 dynamic

172.20.31.68 f8-e4-e3-45-71-12 dynamic

172.20.31.73 98-90-96-c1-de-83 dynamic

172.20.31.82 18-60-24-79-69-ea dynamic

172.20.31.85 48-e7-da-4c-30-77 dynamic

172.20.31.120 40-1c-83-5c-f9-f4 dynamic

172.20.31.129 9c-b6-d0-f2-60-95 dynamic

172.20.31.133 c8-d9-d2-2c-da-0a dynamic

172.20.31.139 48-e7-da-4d-03-b7 dynamic

172.20.31.149 28-39-26-73-14-27 dynamic

172.20.31.158 a4-42-3b-34-da-05 dynamic

172.20.31.168 a8-a7-95-64-08-0f dynamic

172.20.31.175 98-90-96-be-e0-06 dynamic

172.20.31.180 98-90-96-c2-81-e2 dynamic

172.20.31.182 90-0f-0c-83-63-9b dynamic

172.20.31.183 a0-88-69-91-16-44 dynamic

172.20.31.189 b0-0c-d1-f2-b0-d0 dynamic

172.20.31.200 98-90-96-c1-f3-3f dynamic

172.20.31.206 98-90-96-c1-ee-2f dynamic

172.20.31.214 40-1c-83-49-fc-23 dynamic

172.20.31.215 e8-6f-38-1a-f6-2f dynamic

172.20.31.235 98-90-96-c1-ed-6c dynamic

172.20.31.237 98-90-96-c1-f2-92 dynamic

172.20.31.238 98-90-96-c2-ff-fe dynamic

172.20.31.239 98-90-96-be-e1-f0 dynamic

172.20.32.16 d4-1b-81-85-45-af dynamic

172.20.32.26 ec-8e-b5-94-a9-bf dynamic

172.20.32.56 98-90-96-be-dd-8d dynamic

172.20.32.83 78-45-c4-1d-77-d7 dynamic

172.20.32.88 00-68-eb-d7-cf-02 dynamic

172.20.32.105 98-90-96-c2-7b-12 dynamic

172.20.32.111 98-90-96-c2-81-3c dynamic

172.20.32.113 98-90-96-c1-e8-ca dynamic

172.20.32.127 08-8f-c3-45-81-98 dynamic

172.20.32.136 6c-02-e0-00-b7-e6 dynamic

172.20.32.157 f8-b4-6a-6f-a9-1d dynamic

172.20.32.188 80-ce-62-eb-8e-ef dynamic

172.20.32.216 40-a8-f0-03-9b-88 dynamic

172.20.33.40 98-90-96-c2-fc-58 dynamic

172.20.33.59 d0-67-e5-0e-fd-85 dynamic

172.20.33.71 8c-dc-d4-3f-3c-66 dynamic

172.20.33.76 ec-b1-d7-2f-18-c0 dynamic

172.20.33.83 98-90-96-c2-83-ea dynamic

172.20.33.94 c8-b2-9b-35-f8-f4 dynamic

172.20.33.120 c4-65-16-21-c2-a6 dynamic

172.20.33.163 98-90-96-c1-e8-cc dynamic

172.20.33.193 98-90-96-c1-ef-d3 dynamic

172.20.33.236 70-71-bc-e8-be-f0 dynamic

172.20.34.27 70-71-bc-e8-b3-87 dynamic

172.20.34.136 98-90-96-c1-ea-90 dynamic

172.20.34.175 98-28-a6-41-46-83 dynamic

172.20.35.66 98-90-96-c1-e7-87 dynamic

172.20.35.67 40-23-43-55-d9-0d dynamic

172.20.35.179 e8-d8-d1-33-29-cd dynamic

172.20.35.206 e0-69-95-02-65-27 dynamic

172.20.35.208 9c-5a-44-6b-19-29 dynamic

172.20.73.10 f0-7d-68-0e-cb-50 dynamic

172.20.100.19 98-90-96-be-e0-34 dynamic

172.20.101.43 50-9a-4c-1a-69-db dynamic

172.20.144.100 00-5a-20-4f-67-51 dynamic

172.20.202.21 00-20-6b-ef-c3-e9 dynamic

172.20.255.255 ff-ff-ff-ff-ff-ff static

224.0.0.2 01-00-5e-00-00-02 static

224.0.0.22 01-00-5e-00-00-16 static

224.0.0.251 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 ff-ff-ff-ff-ff-ff static

C:\Users\students>

5)

C:\Users\students>ipconfig /all

Windows IP Configuration

Host Name . . . . . . . . . . . . : NT164

Primary Dns Suffix . . . . . . . :

Node Type . . . . . . . . . . . . : Hybrid

IP Routing Enabled. . . . . . . . : No

WINS Proxy Enabled. . . . . . . . : No

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . :

Description . . . . . . . . . . . : Intel(R) Ethernet Connection I217-LM

Physical Address. . . . . . . . . : 98-90-96-BE-E0-0E

DHCP Enabled. . . . . . . . . . . : Yes

Autoconfiguration Enabled . . . . : Yes

Link-local IPv6 Address . . . . . : fe80::852e:327a:692c:43a3%11(Preferred)

IPv4 Address. . . . . . . . . . . : 172.20.34.222(Preferred)

Subnet Mask . . . . . . . . . . . : 255.255.0.0

Lease Obtained. . . . . . . . . . : 17 May 2022 08:39:27

Lease Expires . . . . . . . . . . : 17 May 2022 14:39:26

Default Gateway . . . . . . . . . : 172.20.6.1

DHCP Server . . . . . . . . . . . : 172.20.6.1

DHCPv6 IAID . . . . . . . . . . . : 93884566

DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-29-12-80-6D-98-90-96-BE-E0-0E

DNS Servers . . . . . . . . . . . : 8.8.4.4

4.2.2.2

NetBIOS over Tcpip. . . . . . . . : Enabled

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