
Roll No:19P-0061

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Section: 5B

Lab No: 01

1. Ipconfig

```
Windows IP Configuration

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 4:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2400:adcc:100:8900:ccb:d0dd:5c14:5c79
    Temporary IPv6 Address. . . . . : 2400:adcc:100:8900:e88a:70a:5d99:eda4
    Link-local IPv6 Address . . . . . : fe80::ccb:d0dd:5c14:5c79%19
    Autoconfiguration IPv4 Address. . . : 169.254.92.121
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : fe80::1%19

C:\Users\moham>
```

2. ipconfig/all

```
C:\Users\moham>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DESKTOP-AII2QDM
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Wireless LAN adapter Wi-Fi:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) Centrino(R) Advanced-N 6205
Physical Address. . . . . : A4-4E-31-E0-E0-B4
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 3:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
Physical Address. . . . . : A4-4E-31-E0-E0-B5
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 4:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #3
Physical Address. . . . . : A6-4E-31-E0-E0-B4
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) 82579LM Gigabit Network Connection
Physical Address. . . . . : 3C-97-0E-DC-49-7E
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . : 2400:adcc:100:8900:ccb:d0dd:5c14:5c79(Preferred)
Temporary IPv6 Address. . . . . : 2400:adcc:100:8900:e88a:70a:5d99:eda4(Preferred)
Link-local IPv6 Address . . . . . : fe80::ccb:d0dd:5c14:5c79%19(Preferred)
Autoconfiguration IPv4 Address. . : 169.254.92.121(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : fe80::1%19
DHCPv6 IAID . . . . . : 322737934
DHCPv6 Client DUID. . . . . : 00-01-00-01-28-91-06-82-3C-97-0E-DC-49-7E
DNS Servers . . . . . : fe80::1%19
NetBIOS over Tcpip. . . . . : Enabled

C:\Users\moham>
```

3. `ipconfig /all | findstr /v 00-00-00 | findstr Physical`
4. `ipconfig /all | findstr v4`

```
C:\Users\moham>ipconfig /all | findstr /v 00-00-00 | findstr Physical
Physical Address. . . . . : A4-4E-31-E0-E0-B5
Physical Address. . . . . : A6-4E-31-E0-E0-B4
Physical Address. . . . . : 3C-97-0E-DC-49-7E
Physical Address. . . . . : A4-4E-31-E0-E0-B4

C:\Users\moham>
C:\Users\moham>
C:\Users\moham>ipconfig /all | findstr v4
IPv4 Address. . . . . : 192.168.100.100(Preferred)
IPv4 Address. . . . . : 192.168.100.182(Preferred)

C:\Users\moham>
```

5. `ipconfig /all | findstr IPv4`

```
C:\Users\moham>
C:\Users\moham>
C:\Users\moham>ipconfig /all | findstr IPv4
IPv4 Address. . . . . : 192.168.100.100(Preferred)
IPv4 Address. . . . . : 192.168.100.182(Preferred)

C:\Users\moham>
```

6. ipconfig /release

C:\WINDOWS\system32\cmd.exe

C:\Users\moham>ipconfig /release

Windows IP Configuration

No operation can be performed on Local Area Connection* 3 while it has its media disconnected.
No operation can be performed on Local Area Connection* 4 while it has its media disconnected.

Wireless LAN adapter Local Area Connection* 3:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 4:

Media State : Media disconnected
Connection-specific DNS Suffix . :

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . :
IPv6 Address. : 2400:adcc:100:8900:ccb:d0dd:5c14:5c79
Temporary IPv6 Address. : 2400:adcc:100:8900:e88a:70a:5d99:eda4
Link-local IPv6 Address : fe80::ccb:d0dd:5c14:5c79%19
Default Gateway : fe80::1%19

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . :
IPv6 Address. : 2400:adcc:100:8900::4
IPv6 Address. : 2400:adcc:100:8900:34b9:d0a9:e636:3613
Temporary IPv6 Address. : 2400:adcc:100:8900:7513:cdaa:fdcc:7366
Link-local IPv6 Address : fe80::34b9:d0a9:e636:3613%6
Default Gateway : fe80::1%6

C:\Users\moham>

7. ipconfig /all | displaydns

```
C:\Users\moham>ipconfig /displaydns

Windows IP Configuration

play.google.com
-----
Record Name . . . . . : play.google.com
Record Type . . . . . : 28
Time To Live . . . . . : 266
Data Length . . . . . : 16
Section . . . . . : Answer
AAAA Record . . . . . : 2a00:1450:4019:806::200e

ssl.gstatic.com
-----
Record Name . . . . . : ssl.gstatic.com
Record Type . . . . . : 28
Time To Live . . . . . : 57
Data Length . . . . . : 16
Section . . . . . : Answer
AAAA Record . . . . . : 2a00:1450:4019:801::2003

signaler-pa.clients6.google.com
-----
Record Name . . . . . : signaler-pa.clients6.google.com
Record Type . . . . . : 28
Time To Live . . . . . : 213
Data Length . . . . . : 16
Section . . . . . : Answer
AAAA Record . . . . . : 2a00:1450:4019:806::200a

chat.google.com
-----
Record Name . . . . . : chat.google.com
Record Type . . . . . : 28
Time To Live . . . . . : 78
Data Length . . . . . : 16
Section . . . . . : Answer
AAAA Record . . . . . : 2a00:1450:4019:809::200e

media.fpew1-1.fna.whatsapp.net
-----
Record Name . . . . . : media.fpew1-1.fna.whatsapp.net
Record Type . . . . . : 28
Time To Live . . . . . : 2
Data Length . . . . . : 16
Section . . . . . : Answer
AAAA Record . . . . . : 2400:adc0:c111:0:face:b00c:3333:7020
```

8. ipconfig /release6

```
C:\Users\moham>ipconfig /release6

Windows IP Configuration

No operation can be performed on Wi-Fi while it has its media disconnected.
No operation can be performed on Local Area Connection* 3 while it has its media disconnected.
No operation can be performed on Local Area Connection* 4 while it has its media disconnected.

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 4:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2400:adcc:100:8900:ccb:d0dd:5c14:5c79
    Temporary IPv6 Address. . . . . : 2400:adcc:100:8900:e88a:70a:5d99:eda4
    Link-local IPv6 Address . . . . . : fe80::ccb:d0dd:5c14:5c79%19
    Autoconfiguration IPv4 Address. . : 169.254.92.121
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : fe80::1%19

C:\Users\moham>
```

9. ipconfig /flushdns

```
C:\Users\moham>ipconfig /flushdns

Windows IP Configuration

Successfully flushed the DNS Resolver Cache.

C:\Users\moham>
```

10. ipconfig /all >D:\My_ipconfig-results.txt

```
C:\Users\moham>ipconfig /all >D:\My_ipconfig-results.txt

C:\Users\moham>
```


11.ipconfig /? >E:\My_TEST.txt

My_TEST - Notepad

File Edit Format View Help

USAGE:

```
ipconfig [/allcompartments] [/? | /all |
        /renew [adapter] | /release [adapter] |
        /renew6 [adapter] | /release6 [adapter] |
        /flushdns | /displaydns | /registerdns |
        /showclassid adapter |
        /setclassid adapter [classid] |
        /showclassid6 adapter |
        /setclassid6 adapter [classid] ]
```

where

adapter Connection name
 (wildcard characters * and ? allowed, see examples)

Options:

/?	Display this help message
/all	Display full configuration information.
/release	Release the IPv4 address for the specified adapter.
/release6	Release the IPv6 address for the specified adapter.
/renew	Renew the IPv4 address for the specified adapter.
/renew6	Renew the IPv6 address for the specified adapter.
/flushdns	Purges the DNS Resolver cache.
/registerdns	Refreshes all DHCP leases and re-registers DNS names
/displaydns	Display the contents of the DNS Resolver Cache.
/showclassid	Displays all the dhcp class IDs allowed for adapter.
/setclassid	Modifies the dhcp class id.
/showclassid6	Displays all the IPv6 DHCP class IDs allowed for adapter.
/setclassid6	Modifies the IPv6 DHCP class id.

The default is to display only the IP address, subnet mask and default gateway for each adapter bound to TCP/IP.

For Release and Renew, if no adapter name is specified, then the IP address leases for all adapters bound to TCP/IP will be released or renewed.

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

Examples:

> ipconfig	... Show information
> ipconfig /all	... Show detailed information
> ipconfig /renew	... renew all adapters
> ipconfig /renew EL*	... renew any connection that has its name starting with EL
> ipconfig /release *Con*	... release all matching connections, eg. "Wired Ethernet Connection 1" or "Wired Ethernet Connection 2"
> ipconfig /allcompartments	... Show information about all compartments
> ipconfig /allcompartments /all	... Show detailed information about all compartments

12.nslookup flex.nu.edu.pk

```
C:\Users\moham>nslookup flex.nu.edu.pk
Server:   UnKnown
Address:  fe80::1

Non-authoritative answer:
Name:     flex.nu.edu.pk
Address:  210.56.9.83

C:\Users\moham>
```

13.ipconfig /renew

```
C:\Users\moham>ipconfig /renew

Windows IP Configuration

No operation can be performed on Wi-Fi while it has its media disconnected.
No operation can be performed on Local Area Connection* 3 while it has its media disconnected.
No operation can be performed on Local Area Connection* 4 while it has its media disconnected.

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 4:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:


    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2400:adcc:100:8900:ccb:d0dd:5c14:5c79
    Temporary IPv6 Address. . . . . : 2400:adcc:100:8900:e88a:70a:5d99:eda4
    Link-local IPv6 Address . . . . . : fe80::ccb:d0dd:5c14:5c79%19
    IPv4 Address. . . . . : 192.168.100.100
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%19
                                192.168.100.1

C:\Users\moham>
C:\Users\moham>
```

14.ipconfig /renew6

[illegible]

15.ipconfig /nslookup 210.56.9.83

 Select C:\WINDOWS\system32\cmd.exe

```
C:\Users\moham>nslookup 210.56.9.83
Server:    UnKnown
Address:   fe80::1

Name:      210-56-9-83.Dialup.isb.comsats.net.pk
Address:   210.56.9.83

C:\Users\moham>
```