Roll No: 19P-0067

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Section: 5-B

<u>Lab no: 1</u>

Command: Ipconfig

Output:

```
C:\Users\Abdullah>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 11:

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

Wireless LAN adapter Local Area Connection* 12:

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

Command:

ipconfig/all

Output

```
:\Users\Abdullah>ipconfig/all
Windows IP Configuration
  Host Name . .
                    . . . . . . . : ABD-Desktop
  Ethernet adapter Ethernet:
                                . . : Media disconnected
  Media State . .
  Description . . . . . . . . : Realtek Gaming GbE Family Controller
  Physical Address. . . . . . . : 14-CB-19-CD-0F-95
  DHCP Enabled. . . . . . . : Yes Autoconfiguration Enabled . . . : Yes
Wireless LAN adapter Local Area Connection* 11:
                               . . . : Media disconnected
  Media State . .
  Connection-specific DNS Suffix .:
  Description . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #3
  Physical Address. . . . . . . : 82-D2-1D-C4-E5-F5
  DHCP Enabled. . . . . .
  Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Local Area Connection* 12:
  Media State . . . . . . . . . . : Media disconnected Connection-specific DNS Suffix \, . :
  Description . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #4
  Physical Address. . . . . . . : C2-D2-1D-C4-E5-F5
  DHCP Enabled. . . . . . . . : Yes Autoconfiguration Enabled . . . . : Yes
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
  Description . . . . . . . . : Kaspersky Security Data Escort Adapter
  Physical Address. . . . . . . : 00-FF-FA-B1-28-DA
  DHCP Enabled. . . . .
  Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
```

Command:

Ipconfig /release

```
C:\Users\Abdullah>ipconfig /release
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 11 while it has its media disconnected.
No operation can be performed on Local Area Connection* 12 while it has its media disconnected.
Ethernet adapter Ethernet:
   Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 11:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 12:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter Ethernet 2:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::cce4:bd6d:23fb:d868%19
   Default Gateway . . . . . . . :
 :\Users\Abdullah>
```

Command: Ipconfig /renew

```
::\Users\Abdullah>ipconfig /renew
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 11 while it has its media disconnected.
No operation can be performed on Ethernet 2 while it has its media disconnected.
Ethernet adapter Ethernet:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 11:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . . : fe80::cce4:bd6d:23fb:d868%19
  IPv4 Address. . . . . . . . . : 192.168.0.108
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . : 192.168.0.1
```

Command:

ipconfig /all | findstr /v 00-00-00 | findstr Physical

Output

Command:

ipconfig /all | findstr v4

Output

```
C:\Users\Abdullah>ipconfig /all | findstr v4
IPv4 Address. . . . . . . . . . . . . . 192.168.0.108(Preferred)
```

Command:

ipconfig /displaydns

```
C:\Users\Abdullah>ipconfig /displaydns
Windows IP Configuration
    array615.prod.do.dsp.mp.microsoft.com
    Record Name . . . . : array615.prod.do.dsp.mp.microsoft.com
    Record Type . . . . : 1
    Time To Live . . . : 2553
Data Length . . . . : 4
    Section . . . . . : Answer A (Host) Record . . . : 20.54.24.246
    client.wns.windows.com
    Record Name . . . . : client.wns.windows.com
    Record Type . . . . : 5
    Time To Live . . . : 22
Data Length . . . . : 8
    Section . . . . . : Answer
    CNAME Record . . . . : wns.notify.trafficmanager.net
    Record Name . . . . : wns.notify.trafficmanager.net
    Record Type . . . . : 1
Time To Live . . . : 22
    Data Length . . . . : 4
    Section . . . . . : Answer
    A (Host) Record . . . : 20.198.162.76
    sdeconfig.kaspersky-labs.com
    Record Name . . . . : sdeconfig.kaspersky-labs.com
    Record Type . . . : 1
Time To Live . . : 2590
Data Length . . . : 4
    Section . . . . . : Answer
    A (Host) Record . . . : 40.127.154.148
    dc1-file.ksn.kaspersky-labs.com
```

Command: ipconfig /flushdns

Output:

```
C:\Users\Abdullah>ipconfig /flushdns
Windows IP Configuration
Successfully flushed the DNS Resolver Cache.
C:\Users\Abdullah>
```

Command : ipconfig /?

Output:

```
:\Users\Abdullah>ipconfig /?
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] ]
    adapter
                            Connection name
                           (wildcard characters * and ? allowed, see examples)
    Options:
                           Display this help message
                           Display full configuration information.
Release the IPv4 address for the specified adapter.
        /release
        /release6
                            Release the IPv6 address for the specified adapter.
                            Renew the IPv4 address for the specified adapter.
        /renew6
/flushdns
                            Renew the IPv6 address for the specified adapter.
                            Purges the DNS Resolver cache.
                            Refreshes all DHCP leases and re-registers DNS names
        /registerdns
        /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
                                           ... Show detailed information
    > ipconfig /all
    > ipconfig /renew
> ipconfig /renew EL*
                                           ... renew all adapters
                                           ... renew any connection that has its
                                                name starting with EL
                                           ... release all matching connections,
eg. "Wired Ethernet Connection 1" or
"Wired Ethernet Connection 2"
     > ipconfig /release *Con*
```

Command: nslookup

Output:

C:\Users\Abdullah>nslookup google.com

Server: dns.google Address: 8.8.8.8

Non-authoritative answer:

Name: google.com

Addresses: 2a00:1450:4019:809::200e

142.250.181.14

C:\Users\Abdullah>

Command:nslookup 142.250.181.14

Output:

C:\Users\Abdullah>nslookup 142.250.181.14

Server: dns.google Address: 8.8.8.8

Name: fjr04s05-in-f14.1e100.net

Address: 142.250.181.14

Command: ipconfig /release6

output

```
C:\Users\Abdullah>ipconfig /release6
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 11 while it has its media disconnected.
No operation can be performed on Local Area Connection* 12 while it has its media disconnected.
No operation can be performed on Ethernet 2 while it has its media disconnected.
Ethernet adapter Ethernet:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 11:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 12:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Ethernet adapter Ethernet 2:
   Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix \, . :
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . : fe80::cce4:bd6d:23fb:d868%19
IPv4 Address . . . . : 192.168.0.108
Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . . : 192.168.0.1
```

command:ipconfig /renew6

```
C:\Users\Abdullah>ipconfig /renew6

Windows IP Configuration

No operation can be performed on Ethernet while it has its media disconnected.

No operation can be performed on Local Area Connection* 11 while it has its media disconnected.

No operation can be performed on Local Area Connection* 12 while it has its media disconnected.

No operation can be performed on Ethernet 2 while it has its media disconnected.
```

Command: ipconfig /all | findstr IPv4

Output:

```
C:\Users\Abdullah>ipconfig /all | findstr IPv4
IPv4 Address. . . . . . . . . . . . . . 192.168.0.108(Preferred)
```

Command:ipconfig /all >F:\abc.txt

Output:

```
C:\Users\Abdullah>ipconfig /all >F:\abc.txt
```

Command: ipconfig /? >F:\xyz.txt