Name:

Dawood Safraz

Roll no:

20p-0153

Section:

BSCS-5B

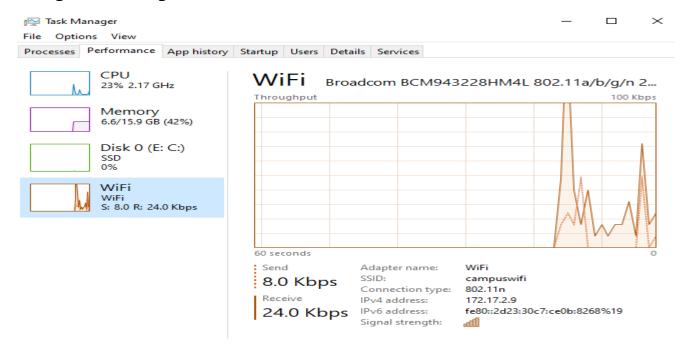
Lab:

Computer Networks
FAST NUCES PWR Campus

Lab Manual Tasks # 1:

TASK 3:

Using Task Manger:

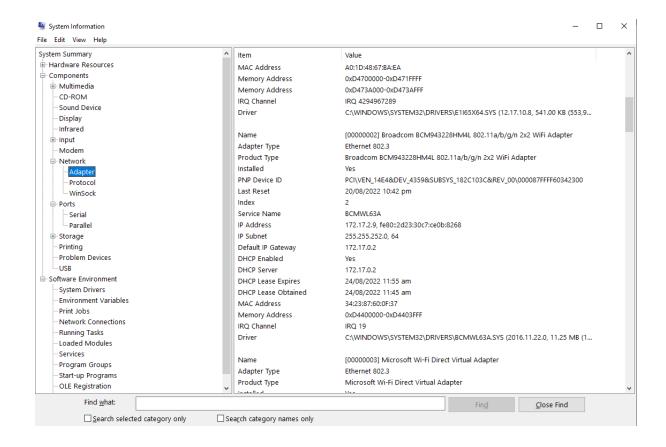


IP ADDRESS THROUGH SETTINGS:

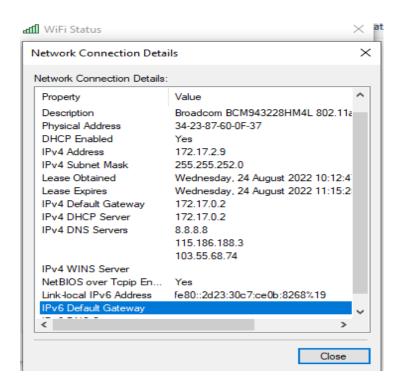
Properties

SSID: campuswifi Wi-Fi 4 (802.11n) Protocol: WPA2-Personal Security type: Network band: 5 GHz Network channel: Link speed (Receive/Transmit): 144/300 (Mbps) Link-local IPv6 address: fe80::2d23:30c7:ce0b:8268%19 IPv4 address: 172.17.2.9 IPv4 DNS servers: 8.8.8.8 115.186.188.3 103.55.68.74 Manufacturer: Broadcom Description: Broadcom BCM943228HM4L 802.11a/ b/g/n 2x2 WiFi Adapter Driver version: 7.35.352.0 34-23-87-60-0F-37 Physical address (MAC): Сору

Through System information:



Through Network:



IP ADDRESS THROUGH PowerShell:

```
PS C:\Users\chattha> Get-NetIPConfiguration
                   : WiFi
InterfaceAlias
InterfaceIndex : 19
InterfaceDescription : Broadcom BCM943228HM4L 802.11a/b/g/n 2x2 WiFi Adapter
NetProfile.Name
                         : campuswifi
IPv4Address
                         : 172,17,2,9
IPv6DefaultGateway
                       : 172.17.0.2
: 8.8.8.8
IPv4DefaultGateway
DNSServer
                           115.186.188.3
                          103.55.68.74
InterfaceAlias
                        : Ethernet
InterfaceIndex : 10
InterfaceDescription : Intel(R) 82579V Gigabit Network Connection
NetAdapter.Status : Disconnected
PS C:\Users\chattha>
```

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved. Try the new cross-platform PowerShell https://aka.ms/pscore6 PS C:\Users\chattha> gip InterfaceAlias : WiFi : 19 InterfaceIndex InterfaceDescription : Broadcom BCM943228HM4L 802.11a/b/g/n 2x2 WiFi Adapter NetProfile.Name : campuswifi : 172.17.2.9 IPv4Address IPv6DefaultGateway IPv4DefaultGateway : 172.17.0.2 DNSServer : 8.8.8.8 115.186.188.3 103.55.68.74 InterfaceAlias : Ethernet

InterfaceIndex : 10

InterfaceDescription : Intel(R) 82579V Gigabit Network Connection

NetAdapter.Status : Disconnected

Task2: Record a couple of IP addresses of your nearby hosts.

a. IP address

b. IP address

c. IP address

Steps:

Open cmd through windows+R

Then put command arp -a

Then take screenshot

```
C:\Users\chattha>arp-a
arp-a' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\chattha>arp -a
Interface: 172.17.2.9 --- 0x13
 Internet Address Physical Address
                                              Type
 172.17.0.2
                       cc-2d-e0-1e-0c-99
                                              dynamic
 172.17.0.33
                       d4-6a-6a-9a-60-f5
                                              dynamic
                       ac-7b-a1-d1-b2-30
  172.17.0.102
                                              dynamic
                                              dynamic
 172.17.0.156
                       34-e6-ad-60-5c-70
 172.17.1.50
                       d0-53-49-35-9c-45
                                              dynamic
 172.17.1.107
                       a8-6b-ad-20-9b-71
                                              dynamic
                                              dynamic
dynamic
                        T8-34-41-00-5/-53
  1/2.1/.1.110
  172.17.1.122
                        a4-b1-c1-a0-3b-06
 172.17.1.128
                       30-52-cb-98-d9-0c
                                              dynamic
 172.17.1.155
                        10-63-c8-30-53-71
                                              dynamic
 172.17.1.169
                        74-70-fd-50-bb-3a
                                              dynamic
  172.17.1.183
                        fe-64-b2-99-e1-3a
                                              dynamic
 172.17.1.211
                       ac-12-03-a3-a0-43
                                              dynamic
 172.17.1.217
                       80-19-34-6e-f6-ef
                                              dynamic
 172.17.2.1
                       fc-b3-bc-38-d0-2e
                                              dynamic
 172.17.2.22
                       10-4a-7d-f0-3c-50
                                              dynamic
                        f0-9e-4a-26-a6-ba
  172.17.2.33
                                              dynamic
 172.17.2.34
                       a8-6b-ad-73-28-e5
                                              dynamic
 172.17.2.52
                       68-94-23-50-a4-f2
                                              dynamic
                       e4-02-9b-f2-1f-07
 172.17.2.75
                                              dynamic
 172.17.2.170
                       5c-e0-c5-5f-dd-22
                                              dynamic
                       64-6e-69-df-37-b5
  172.17.2.218
                                              dynamic
                       ff-ff-ff-ff-ff
 172.17.3.255
                                              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
                       01-00-5e-7f-ff-fa
  239.255.255.250
                                              static
                       ff-ff-ff-ff-ff
  255.255.255.255
                                              static
C:\Users\chattha>
```

Task 1: Using Ipconfig retrieve TCP/IP information for your computer. Write down the following information:

- a. IP address
- b. Subset mask:
- c. Default gateway:

Steps:

Open cmd through windows+R

Then put command ipconfig

Then take screenshot

C:\Windows\system32\cmd.exe

```
operable program or batch file.
C:\Users\chattha> gip
'gip' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\chattha>Get-NetIPConfiguration
'Get-NetIPConfiguration' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\chattha>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
   media State . . . . . . . . . . . . Media disconnected Connection-specific DNS Suffix . : Home
Wireless LAN adapter Local Area Connection* 1:
   Reura State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 2:
   Connection-specific DNS Suffix .:
Wireless LAN adapter WiFi:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::2d23:30c7:ce0b:8268%19
IPv4 Address . . . . . : 172.17.2.9
Subnet Mask . . . . . . : 255.255.252.0
Default Gateway . . . . : 172.17.0.2
:\Users\chattha>
```