1. a)

Link-local IPv6 Address: fe80::7012:8890:7fb2:dd10%11(Preferred)

IPv4 Address: 192.168.16.106(Preferred)

b) Physical Address: 10-02-B5-86-57-9F

```
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . : BlinkAP
  Description . . . . . . . . : Intel(R) Dual Band Wireless-AC 7265
  Physical Address. . . . . . . : 10-02-B5-86-57-9F
  DHCP Enabled. . . . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
  Link-local IPv6 Address . . . . : fe80::7012:8890:7fb2:dd10%11(Preferred)
  IPv4 Address. . . . . . . . . : 192.168.16.106(Preferred)
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Lease Obtained. . . . . . . . : Tuesday, October 13, 2020 3:37:02 PM
  Lease Expires . . . . . . . : Tuesday, October 13, 2020 10:59:45 PM
  Default Gateway . . . . . . . : 192.168.16.1
  DHCP Server . . . . . . . . : 192.168.16.1
  DHCPv6 IAID . . . . . . . . . : 168821429
  DHCPv6 Client DUID. . . . . . : 00-01-00-01-25-18-30-2D-9C-5C-8E-34-E5-A9
  DNS Servers . . . . . . . . . : 192.168.16.1
  NetBIOS over Tcpip. . . . . . : Enabled
```

```
C:\Users\Alex>tracert
Usage: tracert [-d] [-h maximum hops] [-j host-list] [-w timeout]
               [-R] [-S srcaddr] [-4] [-6] target name
Options:
                       Do not resolve addresses to hostnames.
    -d
    -h maximum hops
                       Maximum number of hops to search for target.
   -i host-list
                       Loose source route along host-list (IPv4-only).
    -w timeout
                       Wait timeout milliseconds for each reply.
    -R
                       Trace round-trip path (IPv6-only).
                       Source address to use (IPv6-only).
    -S srcaddr
                       Force using IPv4.
    -4
    -6
                       Force using IPv6.
```

```
C:\Users\Alex>ping youtube.com

Pinging youtube.com [172.217.22.14] with 32 bytes of data:
Reply from 172.217.22.14: bytes=32 time=35ms TTL=116
Reply from 172.217.22.14: bytes=32 time=34ms TTL=116
Reply from 172.217.22.14: bytes=32 time=35ms TTL=116
Reply from 172.217.22.14: bytes=32 time=33ms TTL=116

Ping statistics for 172.217.22.14:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 33ms, Maximum = 35ms, Average = 34ms
```

```
C:\Users\Alex>netstat youtube.com
Displays protocol statistics and current TCP/IP network connections.
NETSTAT [-a] [-b] [-e] [-f] [-n] [-o] [-p proto] [-r] [-s] [-x] [-t] [interval]
               Displays all connections and listening ports.
 -a
 -b
               Displays the executable involved in creating each connection or
                listening port. In some cases well-known executables host
                multiple independent components, and in these cases the
                sequence of components involved in creating the connection
                or listening port is displayed. In this case the executable
                name is in [] at the bottom, on top is the component it called,
                and so forth until TCP/IP was reached. Note that this option
                can be time-consuming and will fail unless you have sufficient
                permissions.
               Displays Ethernet statistics. This may be combined with the -s
  -e
                option.
  -f
                Displays Fully Qualified Domain Names (FQDN) for foreign
                addresses.
                Displays addresses and port numbers in numerical form.
  -n
                Displays the owning process ID associated with each connection.
  -0
 -p proto
                Shows connections for the protocol specified by proto; proto
                may be any of: TCP, UDP, TCPv6, or UDPv6. If used with the -s
                option to display per-protocol statistics, proto may be any of:
                IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, or UDPv6.
                Displays all connections, listening ports, and bound
  -q
                nonlistening TCP ports. Bound nonlistening ports may or may not
                be associated with an active connection.
               Displays the routing table.
  -r
               Displays per-protocol statistics. By default, statistics are
                shown for IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, and UDPv6;
                the -p option may be used to specify a subset of the default.
  -t
                Displays the current connection offload state.
               Displays NetworkDirect connections, listeners, and shared
                endpoints.
                Displays the TCP connection template for all connections.
  -y
                Cannot be combined with the other options.
 interval
                Redisplays selected statistics, pausing interval seconds
                between each display. Press CTRL+C to stop redisplaying
                statistics. If omitted, netstat will print the current
                configuration information once.
```

2.

a)



> Service Host: SysMain	0%	77.8 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Windows Explorer	0%	39.9 MB	0 MB/s	0 Mbps	0%		Very low	Low
Desktop Window Manager	1.9%	32.1 MB	0 MB/s	0 Mbps	0.1%	GPU 0 - 3D	Low	Very low

c)

> (Google Chro	me (6)	0%	154.7 MB	0.1 MB/s	0 Mbps	0%		Very low	Very low
> iii Microsoft Te	ams (32 bit) (5)	0%	98.1 MB	0 MB/s	0 Mbps	0%	GPU 0 - 3D	Very low	Very low
> Microsoft Wo	ord (32 bit)	0%	49.5 MB	0 MB/s	0 Mbps	0%		Very low	Very Iow

d)CPU

Utilization	Speed		Base speed:	2.59 GHz	
12%	3.40 (GHz	Sockets:	1	
			Cores:	4	
Processes	Threads	Handles	Logical processors:	8	
189	189 2423 122248		Virtualization:	Enabled	
Up time			L1 cache:	256 KB	
1:10:21:24			L2 cache:	1.0 MB	
1:10:21:	.24		L3 cache:	6.0 MB	

Memorie

In use (Compressed)	Available	Speed:	1600 MHz
4.5 GB (684 MB)		3.3 GB	Slots used:	1 of 4
		0.0 0.0	Form factor:	SODIMM
Committed	Cached		Hardware reserved:	111 MR

6.8/9.1 GB 3.3 GB

Paged pool Non-paged pool 447 MB 323 MB

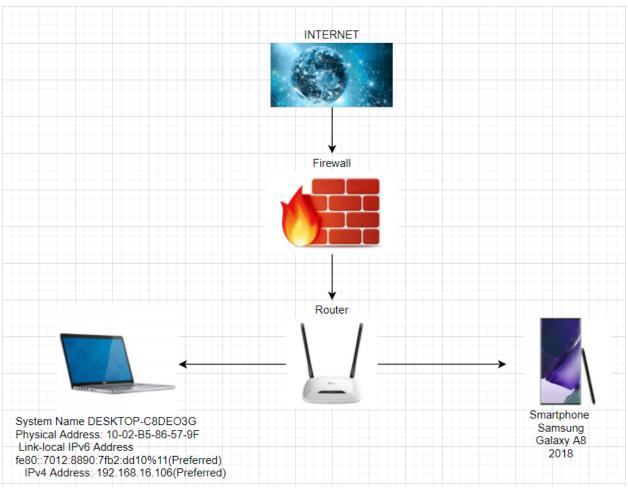
d) Conexiuni

Send Adapter name: Wi-Fi 0 Kbps SSID: camera_309 BlinkAP DNS name: Receive Connection type: 802.11n 0 Kbps

IPv4 address: 192.168.16.106

IPv6 address: fe80::7012:8890:7fb2:dd10%11

Signal strength:



4.1.

56kbps(modem): 15360000/56000=274,285

1Mbps(modem): 15360000 /1000000=15,36

10Mbps(Ethernet): 15360000 /10000000=1,536

100Mbps(Ethernet): 15360000 /100000000=0,1536

1 gigabit: 15360000/1000000000=0,01536