

Case-01

Answer to the question no - 01

```

ract)
Image Width           : 3000
Image Height          : 4000
Encoding Process      : Baseline DCT, Huffman coding
Bits Per Sample       : 8
Color Components      : 3
Y Cb Cr Sub Sampling : YCbCr4:2:0 (2 2)
Aperture              : 1.7
Image Size            : 3000x4000
Megapixels            : 12.0
Scale Factor To 35 mm Equivalent: 0.8
Shutter Speed         : 1/17
Create Date           : 2024:09:25 22:18:34.529
Date/Time Original    : 2024:09:25 22:18:34.529+06:00
Modify Date           : 2024:09:25 22:18:34.529
Circle Of Confusion   : 0.035 mm
Field Of View         : 154.9 deg
Focal Length          : 4.7 mm (35 mm equivalent: 4.0 mm)
Hyperfocal Distance   : 0.37 m
Light Value           : 1.1

```

Answer to the question no - 02

For image: IMG20240925211600.jpg

```
Profile Date Time      : 2018:06:24 13:22:32
Profile File Signature : acsp
Primary Platform       : Apple Computer Inc.
CMM Flags              : Not Embedded, Independent
Device Manufacturer    : Unknown (OPPO)
Device Model           :
Device Attributes      : Reflective, Glossy, Positive, Color
Rendering Intent        : Perceptual
Connection Space Illuminant : 0.9642 1 0.82491
Profile Creator        : Apple Computer Inc.
Profile ID             : 0
```

For image: IMG20240925221834.jpg

```
Profile Date Time      : 2018:06:24 13:22:32
Profile File Signature : acsp
Primary Platform       : Apple Computer Inc.
CMM Flags              : Not Embedded, Independent
Device Manufacturer    : Unknown (OPPO)
Device Model           :
Device Attributes      : Reflective, Glossy, Positive, Color
Rendering Intent        : Perceptual
Connection Space Illuminant : 0.9642 1 0.82491
Profile Creator        : Apple Computer Inc.
Profile ID             : 0
```

Answer to the question no - 03

For image: IMG20240925211600.jpg

```
Image Width           : 3000
Image Height           : 4000
Encoding Process       : Baseline DCT, Huffman coding
Bits Per Sample        : 8
Color Components       : 3
Y Cb Cr Sub Sampling  : YCbCr4:2:0 (2 2)
Aperture               : 1.7
```

For image: IMG20240925221834.jpg

```
Image Width      : 3000
Image Height     : 4000
Encoding Process : Baseline DCT, Huffman coding
Bits Per Sample  : 8
Color Components  : 3
Y Cb Cr Sub Sampling : YCbCr4:2:0 (2 2)
Aperture         : 1.7
```

Answer to the question no - 04

For image: IMG20240925211600.jpg

```
Image Width      : 3000
Image Height     : 4000
Encoding Process : Baseline DCT, Huffman coding
Bits Per Sample  : 8
```

For image: IMG20240925221834.jpg

```
Image Width      : 3000
Image Height     : 4000
Encoding Process : Baseline DCT, Huffman coding
Bits Per Sample  : 8
```

Answer to the question no - 05

For image: IMG20240925211600.jpg

```
Aperture         : 1.7
Image Size       : 3000x4000
Megapixels       : 12.0
Scale Factor To 35 mm Equivalent: 0.8
Shutter Speed    : 1/50
Create Date      : 2024:09:25 21:16:00.871
Date/Time Original : 2024:09:25 21:16:00.871+06:00
Modify Date      : 2024:09:25 21:16:00.871
Circle Of Confusion : 0.035 mm
Field Of View     : 154.9 deg
Focal Length      : 4.7 mm (35 mm equivalent: 4.0 mm)
Hyperfocal Distance : 0.37 m
Light Value      : 6.9
```

For image: IMG20240925221834.jpg

```

ract)
Image Width           : 3000
Image Height          : 4000
Encoding Process      : Baseline DCT, Huffman coding
Bits Per Sample       : 8
Color Components       : 3
Y Cb Cr Sub Sampling  : YCbCr4:2:0 (2 2)
Aperture              : 1.7
Image Size            : 3000x4000
Megapixels            : 12.0
Scale Factor To 35 mm Equivalent: 0.8
Shutter Speed         : 1/17
Create Date           : 2024:09:25 22:18:34.529
Date/Time Original    : 2024:09:25 22:18:34.529+06:00
Modify Date           : 2024:09:25 22:18:34.529
Circle Of Confusion   : 0.035 mm
Field Of View         : 154.9 deg
Focal Length          : 4.7 mm (35 mm equivalent: 4.0 mm)
Hyperfocal Distance   : 0.37 m
Light Value           : 1.1

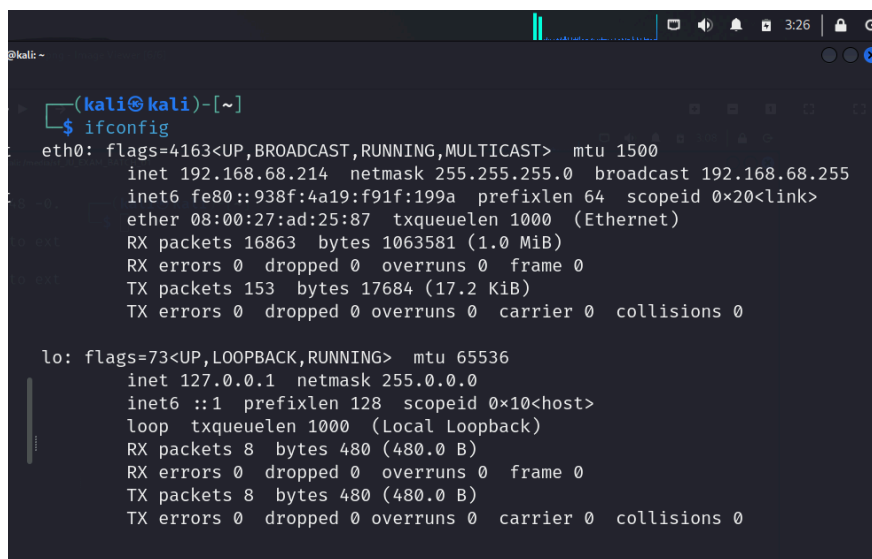
```

Case-02

Answer to the question no - 01

Nmap is short for Network Mapper. It is an open-source Linux command-line tool that is used to scan IP addresses and ports in a network and to detect installed applications.

Answer to the question no - 02



```

(kali㉿kali)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.68.214 netmask 255.255.255.0 broadcast 192.168.68.255
    inet6 fe80::938f:4a19:f91f:199a prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:ad:25:87 txqueuelen 1000 (Ethernet)
    RX packets 16863 bytes 1063581 (1.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 153 bytes 17684 (17.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 8 bytes 480 (480.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 8 bytes 480 (480.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

Answer to the question no - 03

```
(root@kali)-[~]
# nmap -sS 192.168.68.216
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:29 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0049s latency).
Not shown: 991 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
139/tcp    open  netbios-ssn
143/tcp    open  imap
443/tcp    open  https
445/tcp    open  microsoft-ds
5001/tcp   open  complex-link
8080/tcp   open  http-proxy
8081/tcp   open  blackice-icecap
MAC Address: 00:0C:29:2C:A7:B1 (VMware)

Nmap done: 1 IP address (1 host up) scanned in 0.89 seconds
```

Answer to the question no - 04

```
(root@kali)-[~]
# nmap -sS 192.168.68.216 -p 80 -sV
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:32 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0052s latency).
Service detected on 80/tcp: http
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL ...)
MAC Address: 00:0C:29:2C:A7:B1 (VMware)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 7.29 seconds
```

Answer to the question no - 05

```
(root@kali)-[~]
# nmap -sS 192.168.68.216 -p 80 -sV -O
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-05 03:33 EDT
Nmap scan report for 192.168.68.216
Host is up (0.0042s latency).

PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1
ubuntu4.30 with Suhosin-Patch proxy_html/3.0.1 mod_python/3.3.1 Python/2.6.5
mod_ssl/2.2.14 OpenSSL ...)
MAC Address: 00:0C:29:2C:A7:B1 (VMware)
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.17 - 2.6.36
Network Distance: 1 hop

OS and Service detection performed. Please report any incorrect results at ht
tps://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.76 seconds
```