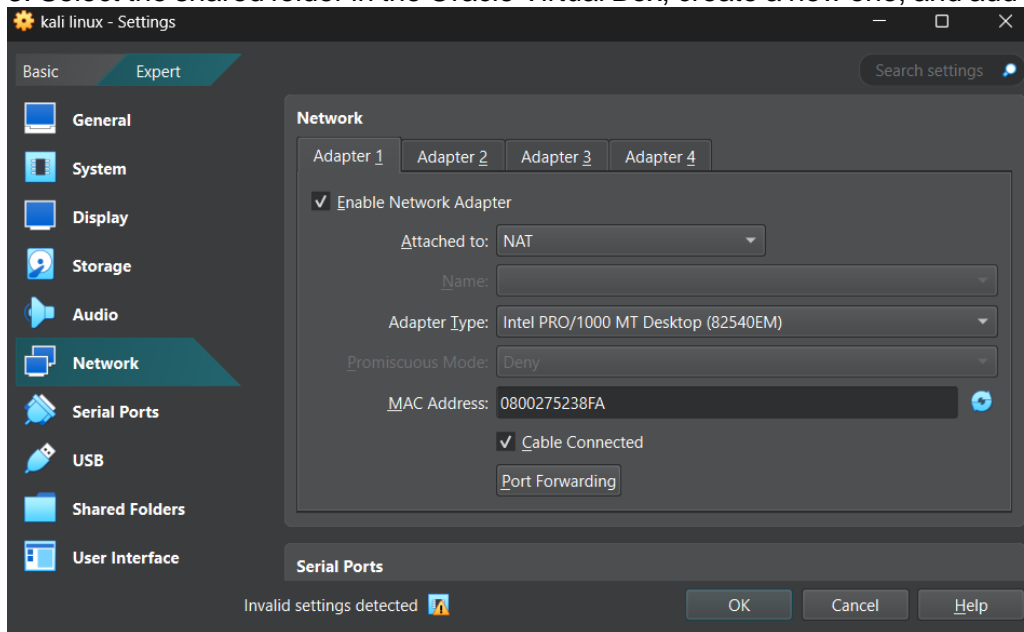


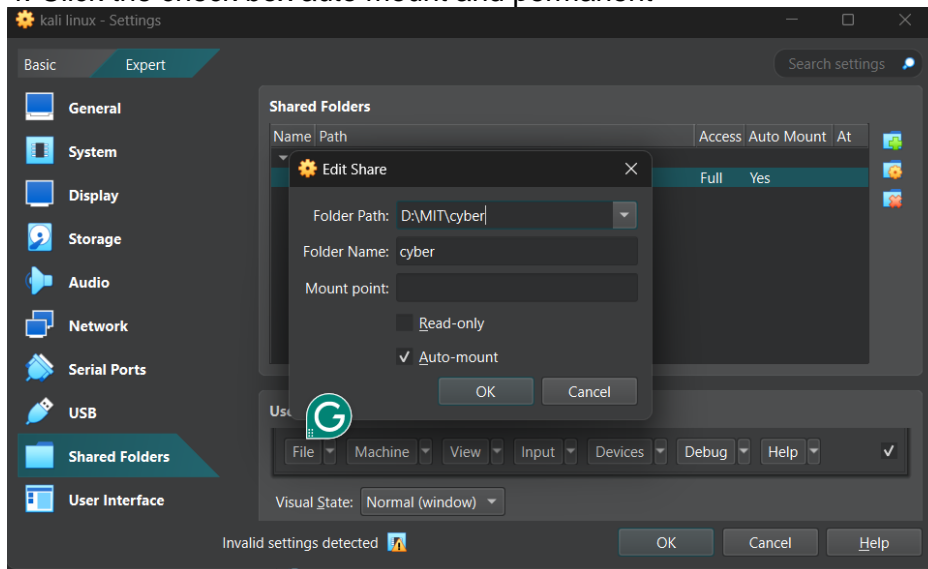
Cyber Security-Edge Program

Name: Afrin Faria
ID: 2111270
Batch: B11

1. Download ch9 from the below link
“https://drive.google.com/drive/folders/1Hml0pNjWsS0JUX2_mXRxXPtcNjP0fz69”
2. Create a folder in windows
3. Select the shared folder in the Oracle Virtual Box, create a new one, and add a path of a folder,



4. Click the check box auto mount and permanent



Getting a picture from a disk analysis of their location:

In Kali Terminal follow the below commands :

1. `sudo -i`

2. `cd /media/sf_cyber` [`cd /media/sf_folderName`]
3. `ls`

Task Name: Find the cat location from the disk file

4. `apt install testdisk`

```
root@kali: /media/sf_cyber
File Actions Edit View Help
# cd /media/sf_cyber

(root@kali)-[/media/sf_cyber]
# ls
ch9

(root@kali)-[/media/sf_cyber]
# apt install testdisk
Installing:
testdisk

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 857
  Download size: 440 kB
  Space needed: 1531 kB / 12.2 GB available

Get:1 http://kali.download/kali kali-rolling/main amd64 testdisk amd64 7.2-0.1 [440 kB]
Fetched 440 kB in 14s (30.9 kB/s)
Selecting previously unselected package testdisk.
(Reading database ... 352030 files and directories currently installed.)
Preparing to unpack .../testdisk_7.2-0.1_amd64.deb ...
Unpacking testdisk (7.2-0.1) ...
Setting up testdisk (7.2-0.1) ...
Processing triggers for man-db (2.12.1-1) ...
Processing triggers for kali-menu (2023.4.7) ...

(root@kali)-[/media/sf_cyber]
# testdisk ch9
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

(root@kali)-[/media/sf_cyber]
#
```

#to test the file

5. `testdisk ch9`

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

TestDisk is free software, and
comes with ABSOLUTELY NO WARRANTY.

Select a media and choose 'Proceed' using arrow keys:
>Disk ch9 - 134 MB / 128 MiB

>[Proceed] [ Quit ]

Note:
Disk capacity must be correctly detected for a successful recovery.
If a disk listed above has an incorrect size, check HD jumper settings and BIOS
detection, and install the latest OS patches and disk drivers.
```

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

Disk ch9 - 134 MB / 128 MiB - CHS 17 255 63
Partition      Start      End      Size in sectors
1 * FAT32      0 32 33    16 81 1    260096

Boot sector
Warning: number of heads/cylinder mismatches 64 (FAT) ≠ 255 (HD)
Warning: number of sectors per track mismatches 32 (FAT) ≠ 63 (HD)
OK

Backup boot sector
Warning: number of heads/cylinder mismatches 64 (FAT) ≠ 255 (HD)
Warning: number of sectors per track mismatches 32 (FAT) ≠ 63 (HD)
OK

Second sectors (cluster information) are not identical.

A valid FAT Boot sector must be present in order to access
any data; even if the partition is not bootable.

[ Quit ] > [ List ] [Org. BS] [Backup BS] [Rebuild BS] [ Dump ]
List directories and files, copy and undelete data from FAT
```

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

Disk ch9 - 134 MB / 128 MiB - CHS 17 255 63
Partition      Start      End      Size in sectors
> 1 * FAT32      0 32 33    16 81 1    260096
```

press enter INTEL → advanced : filesystem units → fat32 → list →

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

Disk ch9 - 134 MB / 128 MiB

Please select the partition table type, press Enter when done.
>[Intel ] Intel/PC partition
[EFI GPT] EFI GPT partition map (Mac i386, some x86_64...)
[Humax ] Humax partition table
[Mac ] Apple partition map (legacy)
[None ] Non partitioned media
[Sun ] Sun Solaris partition
[XBox ] Xbox partition
[Return] Return to disk selection

Hint: Intel partition table type has been detected.
Note: Do NOT select 'None' for media with only a single partition. It's very
rare for a disk to be 'Non-partitioned'.
```

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org

Disk ch9 - 134 MB / 128 MiB
CHS 17 255 63 - sector size=512

>[Analyse] Analyse current partition structure and search for lost partitions
[Advanced] Filesystem Utils
[Geometry] Change disk geometry
[Options] Modify options
[MBR Code] Write TestDisk MBR code to first sector
[Delete] Delete all data in the partition table
[Quit] Return to disk selection

Note: Correct disk geometry is required for a successful recovery. 'Analyse'
process may give some warnings if it thinks the logical geometry is mismatched.
```

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
1 * FAT32 0 32 33 16 81 1 260096
Directory /
drwxr-xr-x 0 0 0 23-Jul-2013 03:21 Documentations
>drwxr-xr-x 0 0 0 23-Jul-2013 03:21 Files
drwxr-xr-x 0 0 0 23-Jul-2013 03:22 WebSites
```

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
1 * FAT32 0 32 33 16 81 1 260096
Directory /Files
drwxr-xr-x 0 0 0 23-Jul-2013 03:20 .
drwxr-xr-x 0 0 0 23-Jul-2013 03:20 ..
> -rwxr-xr-x 0 0 2341273 23-Jul-2013 03:20 revendications.odt
-rwxr-xr-x 0 0 1197056 23-Jul-2013 03:20 421_20080208011.doc
-rwxr-xr-x 0 0 142336 23-Jul-2013 03:20 Coker.doc
-rwxr-xr-x 0 0 63166 23-Jul-2013 03:20 DataSanitizationTutorial.odt
-rwxr-xr-x 0 0 57344 23-Jul-2013 03:20 Creer_votre_association.doc
```

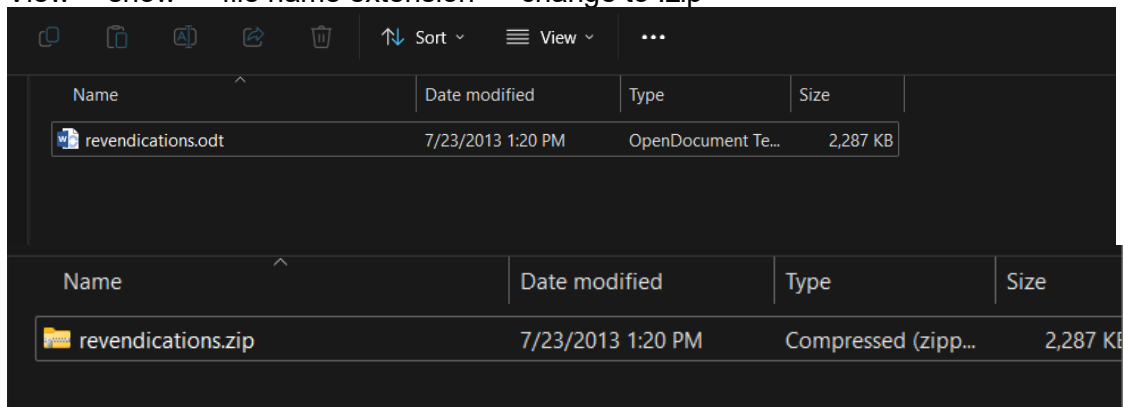
Files → revendications.odt → PRESS C twice →

```
root@kali: /media/sf_cyber
File Actions Edit View Help
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
1 * FAT32 0 32 33 16 81 1 260096
Directory /Files/revendications.odt
Copy done! 1 ok, 0 failed
drwxr-xr-x 0 0 0 23-Jul-2013 03:20 .
drwxr-xr-x 0 0 0 23-Jul-2013 03:20 ..
> -rwxr-xr-x 0 0 2341273 23-Jul-2013 03:20 revendications.odt
-rwxr-xr-x 0 0 1197056 23-Jul-2013 03:20 421_20080208011.doc
-rwxr-xr-x 0 0 142336 23-Jul-2013 03:20 Coker.doc
-rwxr-xr-x 0 0 63166 23-Jul-2013 03:20 DataSanitizationTutorial.odt
-rwxr-xr-x 0 0 57344 23-Jul-2013 03:20 Creer_votre_association.doc
```

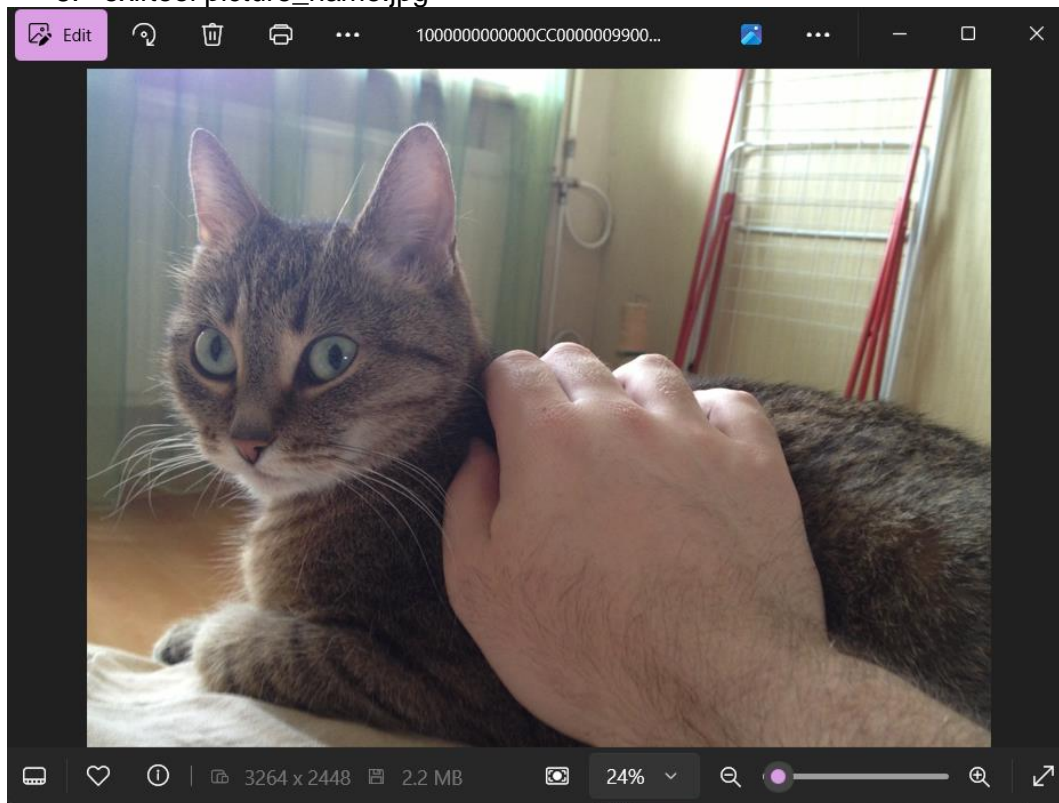
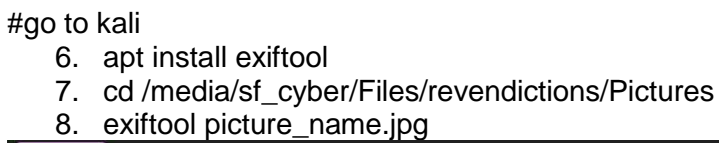
In Windows check shared file

change the file location to .zip

View → show → file name extension → change to .zip



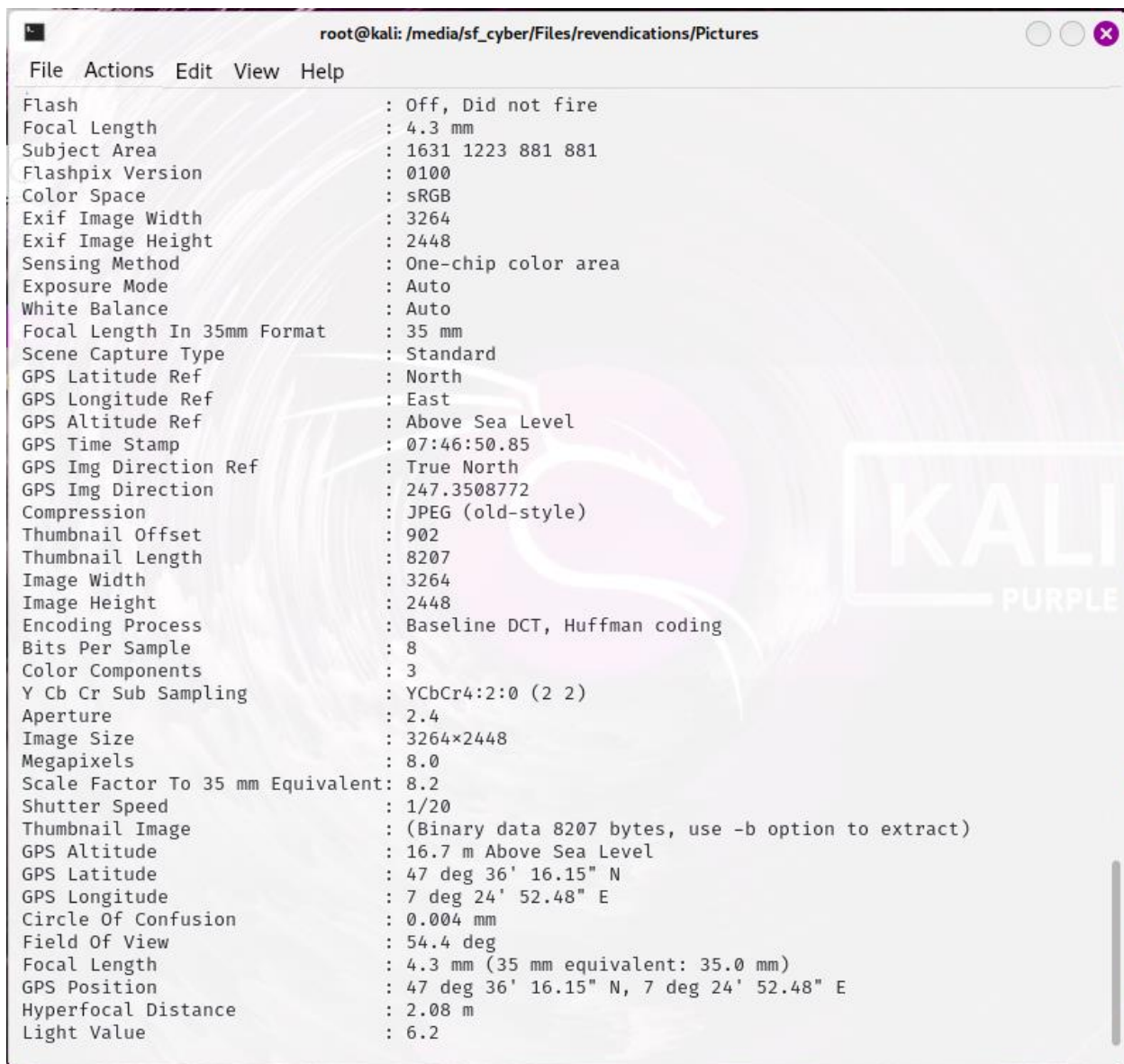
#extract all



```
root@kali: /media/sf_cyber/Files/revendications/Pictures
File Actions Edit View Help

(root@kali)-[/media/sf_cyber]
# cd /media/sf_cyber/Files/revendications/Pictures

(root@kali)-[/media/sf_cyber/Files/revendications/Pictures]
# exiftool 10000000000000CC000000990038D2A62.jpg
ExifTool Version Number      : 12.76
File Name                    : 10000000000000CC000000990038D2A62.jpg
Directory                    : .
File Size                    : 2.3 MB
File Modification Date/Time   : 2013:07:22 11:25:22-04:00
File Access Date/Time        : 2013:07:22 11:25:22-04:00
File Inode Change Date/Time   : 2024:09:27 15:58:38-04:00
File Permissions              : -rwxrwx---
File Type                    : JPEG
File Type Extension          : jpg
MIME Type                    : image/jpeg
Exif Byte Order               : Big-endian (Motorola, MM)
Make                         : Apple
Camera Model Name             : iPhone 4S
Orientation                   : Horizontal (normal)
X Resolution                  : 72
Y Resolution                  : 72
Resolution Unit               : inches
Software                     : 6.1.2
Modify Date                   : 2013:03:11 11:47:07
Y Cb Cr Positioning           : Centered
Exposure Time                 : 1/20
F Number                      : 2.4
Exposure Program              : Program AE
ISO                           : 160
Exif Version                  : 0221
Date/Time Original            : 2013:03:11 11:47:07
Create Date                   : 2013:03:11 11:47:07
Components Configuration      : Y, Cb, Cr, -
Shutter Speed Value           : 1/20
Aperture Value                : 2.4
Brightness Value              : 1.477742947
Metering Mode                 : Multi-segment
Flash                         : Off, Did not fire
Focal Length                  : 4.3 mm
Subject Area                  : 1631 1223 881 881
```

#notice the below information about location

GPS Latitude: 47.6

GPS Longitude: 7.4

#use below website to find the location

<https://www.gps-coordinates.net/gps-coordinates-converter>

#Get address

gps-coordinates.net/gps-coordinates-converter

ClassroomYouTubeGmailFacebookPDFGoogleChatGPTCodeforcesSheetsDocsPythonSamonlineOverleafObject Oriented Pro...WhatsAppAll Bookmarks

login | register

CoordinatesMy LocationDriving DirectionsConverterUS MapSatelliteStreet ViewAPIMapsDistance

Address

D 161, 68510 Helfrantzkirch, France

Get GPS Coordinates

DD (decimal degrees)*

Latitude47.6

Longitude7.4

Get Address

DMS (degrees, minutes, seconds)*

LatitudeN O S47°36'0"

LongitudeE O W7°24'0"

What3Words (w3w)

scrupoli.mentine.buca

