#### **EXPERIMENT--02**

### Aim:

To recover lost or deleted partitions/files using the TestDisk forensic tool.

### **Tools Used:**

- TestDisk
- Windows/Linux Operating System

### **Procedure:**

- 1. Launch TestDisk from the command line.
- 2. Select the storage device to be analysed.
- 3. Choose Analyse to scan for lost or deleted partitions.
- 4. Navigate through the detected partitions and list the files.
- 5. Recover selected files or partitions to a safe location.

# **Outputs:**

```
☐ C\Users\ashfa\Downloads\testdisk-7.2-20250721T144550Z-1-001\testdisk_win.exe

FestDisk 7.2, Data Recovery Utility, February 2024
Inistophe GRENIER \(\text{grenier}\text{egg}\text{egcurity.org}\)

inttps://www.cgsecurity.org

FestDisk is free data recovery software designed to help recover lost
artitions and/or make non-booting disks bootable again when these symptoms
are caused by faulty software, certain types of viruses or human error.
It can also be used to repair some filesystem errors.

Information gathered during TestDisk use can be recorded for later
review. If you choose to create the text file, testdisk.log , it
all contain TestDisk options, technical information and various
outputs; including any folder/file names TestDisk was used to find and
ist onscreen.

See arrow keys to select, then press Enter key:

I Create 1 Create a new log file
[ Append ] Append information to log file
[ No Log ] Don't record anything
```

```
CAUSers\ashfa\Downloads\testdisk-7.2-20250721T144550Z-1-001\testdisk-7.2\testdisk_win.exe  
estDisk 7.2, Data Recovery Utility, February 2024
hristophe GRENIER \( \text{grenier}\text{\text{e}}\text{cgsecurity.org} \)

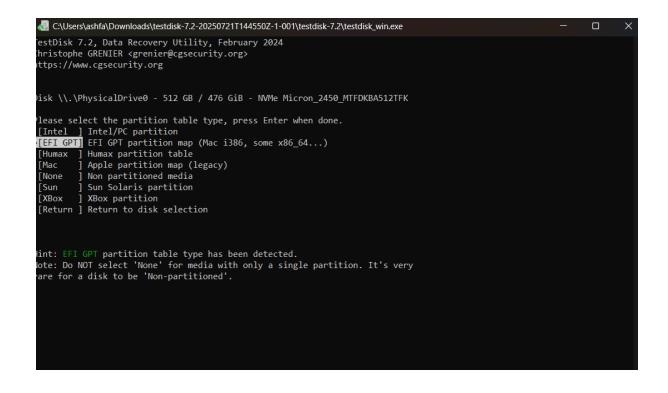
ttps://www.cgsecurity.org

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

elect a media and choose 'Proceed' using arrow keys:
Disk \\.\PhysicalDrive0 - 512 GB / 476 GiB - NVMe Micron_2450_MTFDKBA512TFK

[Proceed ] [ Quit ]

ote: Serial number 0000_0000_0000_0001_00A0_7522_3823_189F.
isk capacity must be correctly detected for a successful recovery.
f a disk listed above has an incorrect size, check HD jumper settings and BIOS etection, and install the latest OS patches and disk drivers.
```



C:\Users\ashfa\Downloads\testdisk-7.2-20250721T144550Z-1-001\testdisk-7.2\testdisk_win.exe	_	×
TestDisk 7.2, Data Recovery Utility, February 2024 Christophe GRENIER <grenier@cgsecurity.org> nttps://www.cgsecurity.org</grenier@cgsecurity.org>		ı
Disk \\.\PhysicalDrive0 - 512 GB / 476 GiB - CHS 62260 255 63		
Current partition structure:		
Partition Start End Size in sectors		
1 P EFI System 2048 534527 532480 [EFI system partition]		
No FAT, NTFS, ext2, JFS, Reiser, cramfs or XFS marker		
2 P MS Reserved 534528 567295 32768 [Microsoft reserved partition]		
2 P MS Reserved 534528 567295 32768 [Microsoft reserved partition]		
No FAT, NTFS, ext2, JFS, Reiser, cramfs or XFS marker		
3 P MS Data 567296 997495438 996928143 [Basic data partition]		
3 P MS Data 567296 997495438 996928143 [Basic data partition]		
4 P Windows Recovery Env 997496832 999682047 2185216		
5 P Windows Recovery Env 999682048 1000214527 532480 [Basic data partition]		
D. Deimann, D. Deletad		
P=Primary D=Deleted		
>[Quick Search] [ Backup ]		

```
TestDisk 7.3-WIP, Data Recovery Utility, April 2025
Christophe GRENIER <greenier@cgsecurity.org>
https://www.cgsecurity.org
Write partition table, confirm ? (Y/N)
```

## **Result:**

Lost or deleted files/partitions were successfully identified and recovered using TestDisk.