

Name :Prateek Pandey  
Registration No : 11905876  
Section :KE016  
CA-3

Ques:Use any open source software to generate report to extract deleted data from hard disk drive.

Open Source Software Used- Foremost is an open source data recovery tool that can recover deleted files from hard disk drives and other storage devices. It uses a signature-based approach to identify file types and can recover a wide variety of file formats, including documents, photos, and videos.

RECOVERING FILE FROM EXTERNAL USB DRIVE IN LINUX USING FOREMOST RECOVERY SOFTWARE.

MY IMPEMETATION→

Step1: Change to root

Step2:installing foremost using command -- **sudo apt install foremost**

Step 3:For checking the version and manual of foremost we will use - **foremost -h**

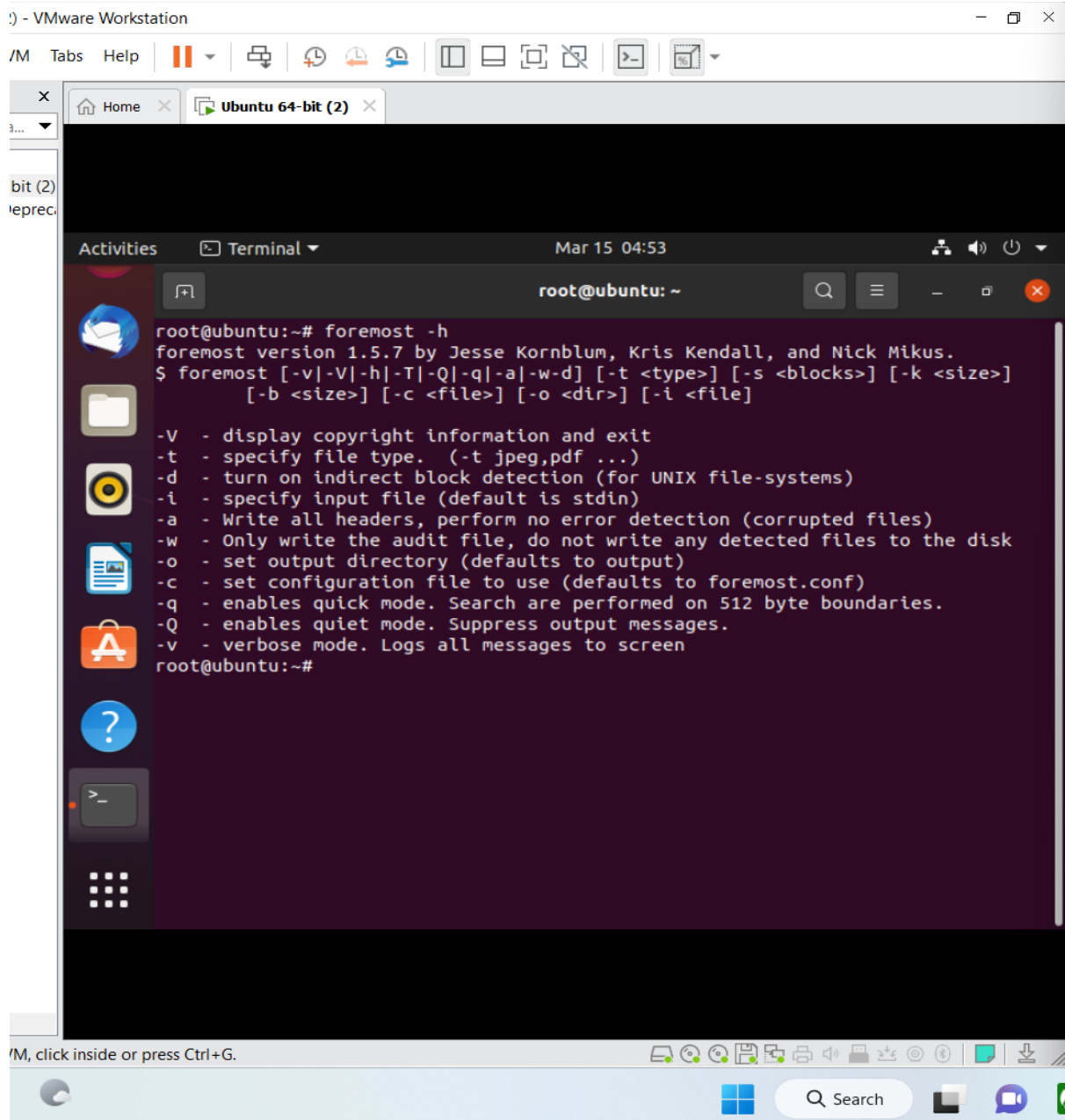
Step 4: Opening the list of all the external disks by using command - **sudo fdisk -l**

Step 5 : Making Recovery to recover folder using command–

**sudo foremost -v -t jpg,pdf,mp4,exe -q -i /dev/sdb -o /home/Desktop/recover -T**

Then I made Recover folder on the desktop of linux And gave it as output for recovery files

I have attached all the screenshots below—>



Activities Terminal Mar 15 05:11

root@ubuntu: ~

Disk /dev/sdb: 14.72 GiB, 15791554560 bytes, 30842880 sectors  
 Disk model: Cruzer Blade  
 Units: sectors of 1 \* 512 = 512 bytes  
 Sector size (logical/physical): 512 bytes / 512 bytes  
 I/O size (minimum/optimal): 512 bytes / 512 bytes  
 Disklabel type: dos  
 Disk identifier: 0x2066954a

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sdb1		32	30842879	30842848	14.7G	7	HPFS/NTFS/exFAT

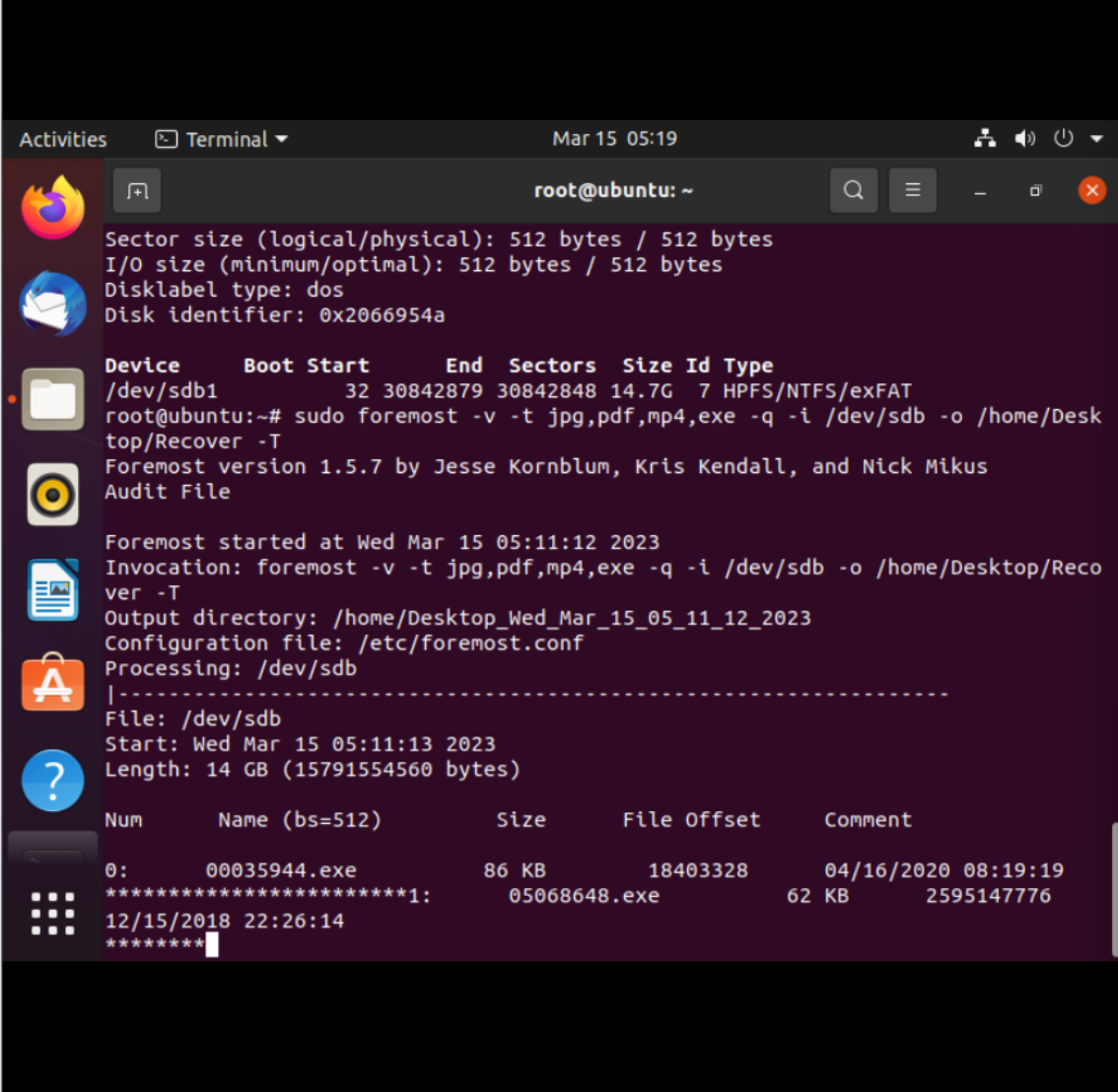
```

root@ubuntu:~# sudo foremost -v -t jpg,pdf,mp4,exe -q -i /dev/sdb -o /home/Desktop/Recover -T
Foremost version 1.5.7 by Jesse Kornblum, Kris Kendall, and Nick Mikus
Audit File

Foremost started at Wed Mar 15 05:11:12 2023
Invocation: foremost -v -t jpg,pdf,mp4,exe -q -i /dev/sdb -o /home/Desktop/Recover -T
Output directory: /home/Desktop_Wed_Mar_15_05_11_12_2023
Configuration file: /etc/foremost.conf
Processing: /dev/sdb
|-----
File: /dev/sdb
Start: Wed Mar 15 05:11:13 2023
Length: 14 GB (15791554560 bytes)

Num      Name (bs=512)      Size      File Offset      Comment
    
```

bit (2)  
leprec



The image shows a terminal window on an Ubuntu system. The window title is "Terminal" and the date/time is "Mar 15 05:19". The prompt is "root@ubuntu: ~". The terminal output shows the results of a disk analysis and file recovery process using the "foremost" tool. It lists disk details, the command used, the version of the tool, the start time, the invocation command, the output directory, the configuration file, and the processing details. A table of recovered files is also shown.

```
root@ubuntu: ~  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: 0x2066954a  
  
Device      Boot Start      End  Sectors  Size Id Type  
/dev/sdb1   32 30842879 30842848 14.7G  7 HPFS/NTFS/exFAT  
root@ubuntu:~# sudo foremost -v -t jpg,pdf,mp4,exe -q -i /dev/sdb -o /home/Desktop/Recover -T  
Foremost version 1.5.7 by Jesse Kornblum, Kris Kendall, and Nick Mikus  
Audit File  
  
Foremost started at Wed Mar 15 05:11:12 2023  
Invocation: foremost -v -t jpg,pdf,mp4,exe -q -i /dev/sdb -o /home/Desktop/Recover -T  
Output directory: /home/Desktop_Wed_Mar_15_05_11_12_2023  
Configuration file: /etc/foremost.conf  
Processing: /dev/sdb  
|-----  
File: /dev/sdb  
Start: Wed Mar 15 05:11:13 2023  
Length: 14 GB (15791554560 bytes)  
  
Num      Name (bs=512)      Size      File Offset      Comment  
0:      00035944.exe      86 KB      18403328      04/16/2020 08:19:19  
*****1:      05068648.exe      62 KB      2595147776  
12/15/2018 22:26:14  
*****
```