



WINTER SEMESTER 2019-20
DIGITAL FORENSICS (CSE4004)
LAB ASSIGNMENT - 10

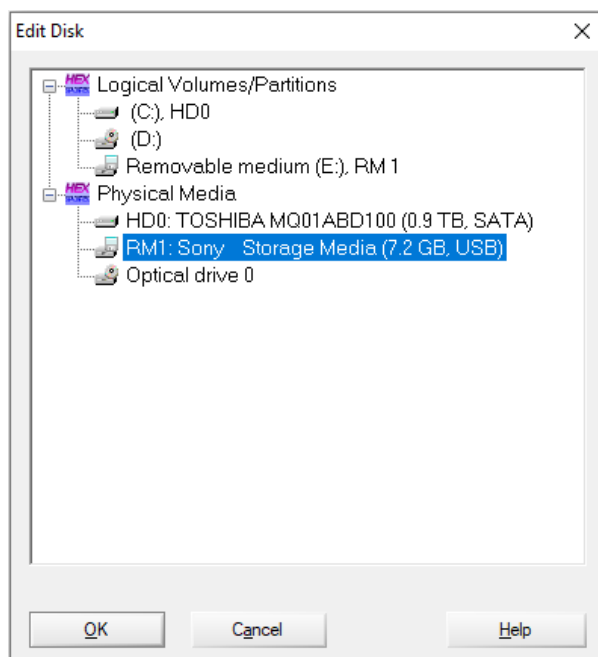
Dishi Jain
17BCB0055

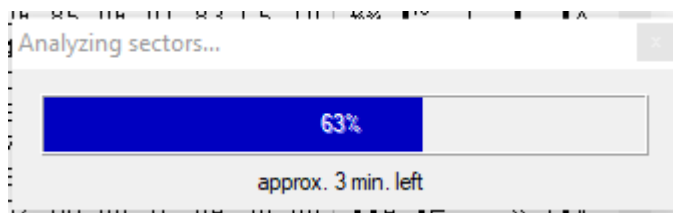
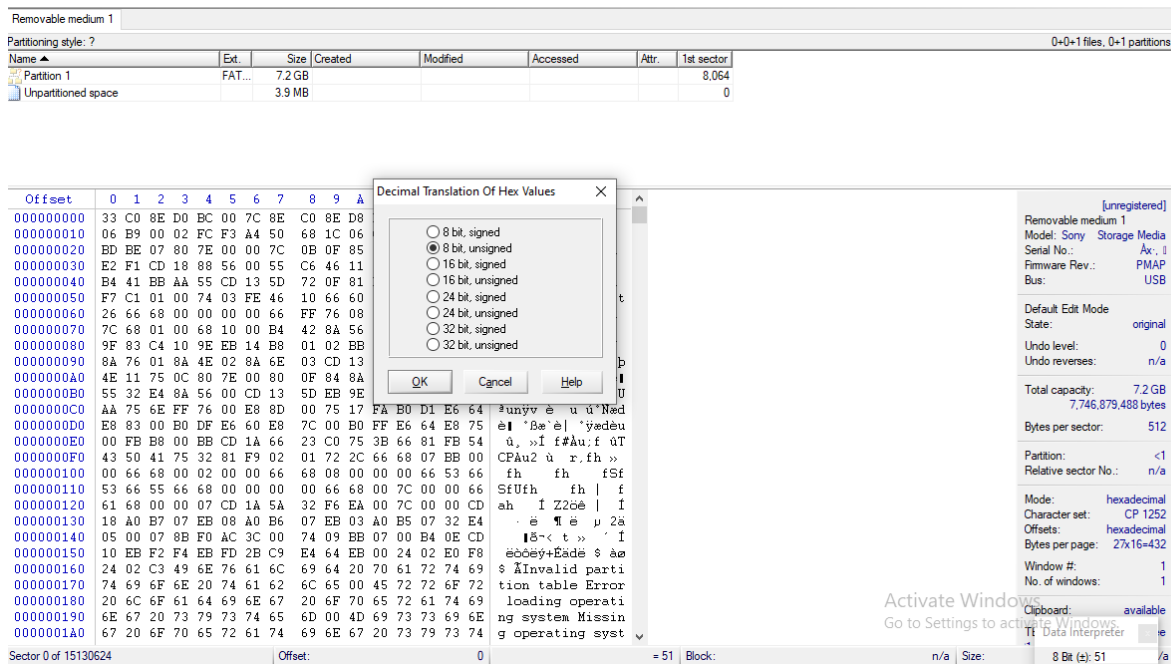
Winhex – Computer Forensics Data Recovery Tool

WinHex is in its core a universal hexadecimal editor, particularly helpful in the realm of computer forensics, data recovery, low-level data processing, and IT security. An advanced tool for everyday and emergency use: inspect and edit all kinds of files, recover deleted files or lost data from hard drives with corrupt file systems or from digital camera cards.

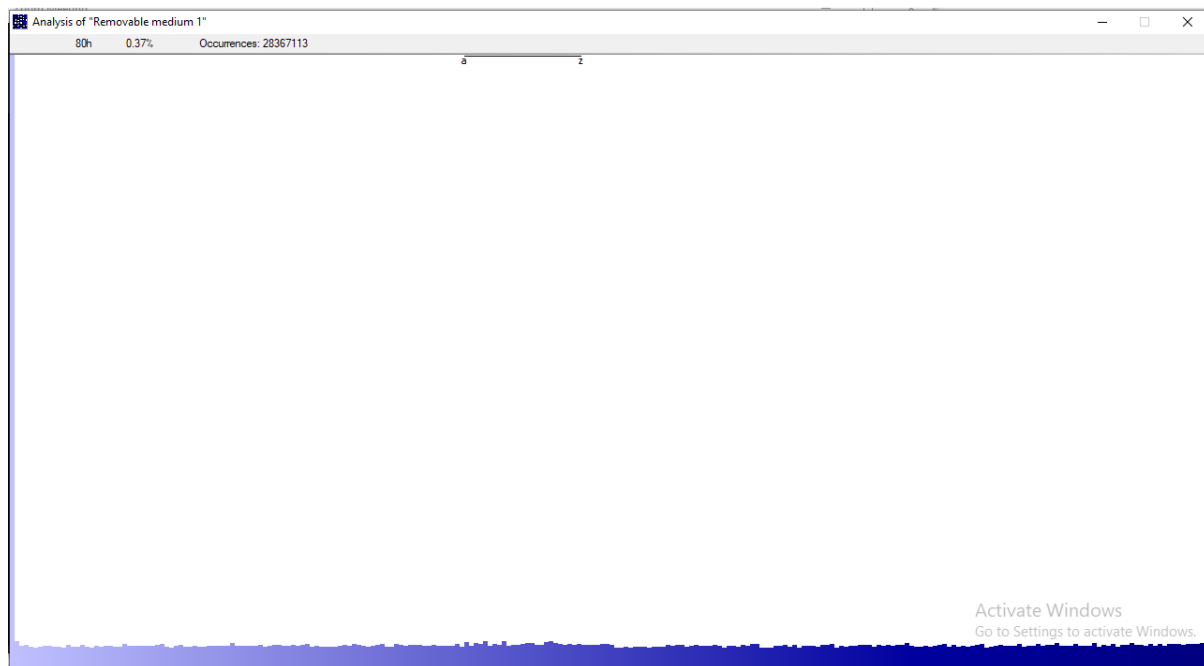
Winhex Features We can use winhex for various forensics-related jobs.

- Data Recovery We can recover deleted data from hard drives.
- Backup Winhex can be used for creating disk images
- Disk Analysis We can also analyse disk sectors using Winhex with visualisations.





Analysis graph



Data Recovery

1. Select the file to recover

Removable medium 1 Removable medium..., P1							
0 min. ago							
Name ▲	Ext.	Size	Created	Modified	Accessed	Attr.	1st sector
(Root directory)		4.0 KB					32,768
fsevents		4.0 KB	24/11/2019 11:32:50	24/11/2019 11:32:50	24/11/2019	H	32,832
.Spotlight-V100		4.0 KB	24/11/2019 11:32:50	24/11/2019 11:32:50	24/11/2019	H	32,800
LoanDocs		4.0 KB	24/11/2019 11:32:56	24/11/2019 11:32:56	24/11/2019		35,408
System Volume Information		4.0 KB	06/01/2019 12:40:38	06/01/2019 12:40:40	06/01/2019	SH	32,776
._LoanDocs		4.0 KB	24/11/2019 11:32:56	24/11/2019 11:33:02	24/11/2019	HA	35,856
Gift Card.pdf	pdf	171 KB	20/04/2019 16:48:46	20/04/2019 16:48:26	02/06/2020	A	33,744
Jewellery making Workshop-4.pdf	pdf	299 KB	06/01/2019 12:45:36	06/01/2019 12:45:06	02/06/2020	A	33,144

2. Create disk image

Name ▲	Ext.	Size	Created	Modified	Accessed	Attr.	1st sector
(Root directory)		4.0 KB					32,768
fsevents		4.0 KB	24/11/2019 11:32:50	24/11/2019 11:32:50	24/11/2019	H	32,832
.Spotlight-V100		4.0 KB	24/11/2019 11:32:50	24/11/2019 11:32:50	24/11/2019	H	32,800
LoanDocs		4.0 KB	24/11/2019 11:32:56	24/11/2019 11:32:56	24/11/2019		35,408
System Volume Information		4.0 KB	06/01/2019 12:40:38	06/01/2019 12:40:40	06/01/2019	SH	32,776
._LoanDocs		4.0 KB	24/11/2019 11:32:56	24/11/2019 11:33:02	24/11/2019	HA	35,856
Gift Card.pdf	pdf	171 KB	20/04/2019 16:48:46	20/04/2019 16:48:26	02/06/2020	A	33,744
Jewellery making Workshop-4.pdf	pdf	299 KB	06/01/2019 12:45:36	06/01/2019 12:45:06	02/06/2020	A	33,144

WinHex
Compression ratio: 8%
OK

Copying sectors of Removable medium 1, Partition 1... #2
100%

Offset	0	1	2	3	4	5	6	7	8
00107A000	5	50	44	46	2D	31	2E	33	0A
00107A010	F3	A0	D0	C4	C6	0A	34	20	30
00107A020	20	2F	4C	65	6E	74	68	20	35

3. Hexadecimal value

MD5 (128 bit)

選擇模式選擇散列類型

34C30C8C3D8A86ECB2D617673688D6C9

Close